

## **AGENDA**

### **Major Projects Committee**

**September 21, 2006**

**Time Change: 10:30 a.m. (This meeting only.)**

#### **Location:**

**SANBAG Offices**  
**1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor**  
**San Bernardino, CA 92410**  
***The Super Chief Room***

#### **Major Projects Committee Membership**

##### **Chair**

John Pomierski, Mayor  
*City of Upland*

Dennis Yates, Mayor  
*City of Chino*

Robert Christman, Council  
*City of Loma Linda*

##### **Vice-Chair**

Grace Vargas, Mayor  
*City of Rialto*

Gwenn Norton-Perry, Mayor Pro Tem  
*City of Chino Hills*

Paul M. Eaton, Mayor  
*City of Montclair*

Paul Biane, Supervisor  
*County of San Bernardino*

Deirdre Bennett, Mayor  
*City of Colton*

Alan Wapner, Mayor Pro Tem  
*City of Ontario*

Dennis Hansberger, Supervisor  
*County of San Bernardino*

Mark Nuaimi, Mayor  
*City of Fontana*

Diane Williams, Mayor Pro Tem  
*City of Rancho Cucamonga*

Josie Gonzales, Supervisor  
*County of San Bernardino*

Bea Cortes, Mayor Pro Tem  
*City of Grand Terrace*

Pat Gilbreath, Mayor Pro Tem  
*City of Redlands*

Gary Ovitt, Supervisor  
*County of San Bernardino*

Larry McCallon, Council  
*City of Highland*

Pat Morris, Mayor  
*City of San Bernardino*

Richard Riddell, Mayor  
*City of Yucaipa*

*San Bernardino Associated Governments (SANBAG) is a council of governments formed in 1973 by joint powers agreement of the cities and the County of San Bernardino. SANBAG is governed by a Board of Directors consisting of a mayor or designated council member from each of the twenty-four cities in San Bernardino County and the five members of the San Bernardino County Board of Supervisors.*

*In addition to SANBAG, the composition of the SANBAG Board of Directors also serves as the governing board for several separate legal entities listed below:*

*The San Bernardino County Transportation Commission, which is responsible for short and long range transportation planning within San Bernardino County, including coordination and approval of all public mass transit service, approval of all capital development projects for public transit and highway projects, and determination of staging and scheduling of construction relative to all transportation improvement projects in the Transportation Improvement Program.*

*The San Bernardino County Transportation Authority, which is responsible for administration of the voter-approved half-cent transportation transactions and use tax levied in the County of San Bernardino.*

*The Service Authority for Freeway Emergencies, which is responsible for the administration and operation of a motorist aid system of call boxes on State freeways and highways within San Bernardino County.*

*The Congestion Management Agency, which analyzes the performance level of the regional transportation system in a manner which ensures consideration of the impacts from new development and promotes air quality through implementation of strategies in the adopted air quality plans.*

*As a Subregional Planning Agency, SANBAG represents the San Bernardino County subregion and assists the Southern California Association of Governments in carrying out its functions as the metropolitan planning organization. SANBAG performs studies and develops consensus relative to regional growth forecasts, regional transportation plans, and mobile source components of the air quality plans.*

*Items which appear on the monthly Board of Directors agenda are subjects of one or more of the listed legal authorities. For ease of understanding and timeliness, the agenda items for all of these entities are consolidated on one agenda. Documents contained in the agenda package are clearly marked with the appropriate legal entity.*

San Bernardino Associated Governments  
County Transportation Commission  
County Transportation Authority  
Service Authority for Freeway Emergencies  
County Congestion Management Agency

**Major Projects Committee**

**September 21, 2006**

**Time Change: 10:30 a.m. (This meeting only.)**

**LOCATION:**

**Santa Fe Depot  
1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor, San Bernardino  
The Super Chief Room**

**CALL TO ORDER – 9:00 a.m.**

*(Meeting chaired by Mayor John Pomierski.)*

- I. Agenda Notices/Modifications
- II. Announcements

**1. Possible Conflict of Interest Issues for the SANBAG Major Projects Meeting of September 21, 2006 Pg. 7**

Note agenda item contractors, subcontractors and agents which may require member abstentions due to conflict of interest and financial interests. Member abstentions shall be stated and recorded on the appropriate item in the minutes summary for each month.

**Consent Calendar**

Consent Calendar items shall be adopted by a single vote unless removed by Board member request. Items pulled from the consent calendar will be brought up at the end of the agenda.

**2. Major Projects Attendance Roster Pg. 11**

A quorum shall consist of a majority of the membership of each SANBAG Policy Committee, except that all County Representatives shall be counted as one for the purpose of establishing a quorum.

**3. Approval of the July Meeting Minutes Pg. 13**

*Notes/Action*

**Consent Calendar Cont'd**

4. **Construction Change Orders to Ongoing SANBAG Construction Contracts with Yeager/Skanska, Inc.** Pg. 19

Review and Ratify Change Orders. TN 82407000. **Darren Kettle**

5. **Construction Change Orders to Ongoing SANBAG Construction Contracts with Brutoco Engineering & Construction, Atkinson Contractors LP, and Atkinson/MCM JV, and Tony's Multi-Service Firm, Inc.** Pg. 21

Review and Ratify Change Orders. TN 82407000. **Darren Kettle**

**Discussion Calendar**

6. **Contract No. 07-004 with Westbound Communications to provide Public Information and Safety Services for the widening of the 5<sup>th</sup> Street Over-Crossing at Interstate 215 in San Bernardino** Pg. 37

Approve Contract No. 07-004 with Westbound Communications to provide Public Information and Safety Services for the widening of the 5<sup>th</sup> Street Over-Crossing at Interstate 215 in San Bernardino in the amount not to exceed \$550,000 as specified in the Financial Impact Section. **Cheryl Donahue**

7. **Amendment to Major Projects Contract Negotiation Guidelines Policy – SANBAG Policy 34504** Pg. 43

Approve amended SANBAG Policy 34504 – Major Project Contract Negotiation Guidelines Policy (Attachment "A"). **Darren Kettle**

8. **Approve plans and specifications and Authorize advertising for Construction Bids for I-215 5<sup>th</sup> Street Overcrossing, Interstate 10/Live Oak Canyon Interchange and State Street/University Parkway Grade Separation.** Pg. 47

Approve plans and specifications and Authorize advertising Construction Bids for I-215 5<sup>th</sup> Street Overcrossing, Interstate 10/Live Oak Canyon Interchange and State Street/University Parkway Grade Separation. **Darren Kettle**

9. Request for Qualifications (RFQ) No. C07088 for Ramona Avenue and Hunts Lane Grade Separation Construction Services Pg. 49

Authorize staff to release Request for Qualifications (RFQ) No. C07088 for Ramona Avenue and Hunts Lane Grade Separation Construction Services. **Darren Kettle**

10. Acronym Listing

Pg. 97

11. Additional Items from Committee Members

12. Brief Comments by General Public

13. Director's Comments

**ADJOURNMENT**

The next Major Projects Meeting  
is October 12, 2006.

### **Meeting Procedures**

The Ralph M. Brown Act is the state law which guarantees the public's right to attend and participate in meetings of local legislative bodies. These rules have been adopted by the Board of Directors in accordance with the Brown Act, Government Code 54950 et seq., and shall apply at all meetings of the Board of Directors and Policy Committees.

### **Accessibility**

The SANBAG meeting facility is accessible to persons with disabilities. If assistive listening devices or other auxiliary aids or services are needed in order to participate in the public meeting, requests should be made through the Clerk of the Board at least three (3) business days prior to the Board meeting. The Clerk's telephone number is (909) 884-8276 and office is located at 1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor, San Bernardino, CA.

**Agendas** – All agendas are posted at 1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor, San Bernardino at least 72 hours in advance of the meeting. Staff reports related to agenda items may be reviewed at the SANBAG offices located at 1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor, San Bernardino and our website: [www.sanbag.ca.gov](http://www.sanbag.ca.gov).

**Agenda Actions** – Items listed on both the "Consent Calendar" and "Items for Discussion" contain suggested actions. The Board of Directors will generally consider items in the order listed on the agenda. However, items may be considered in any order. New agenda items can be added and action taken by two-thirds vote of the Board of Directors.

**Closed Session Agenda Items** – Consideration of closed session items *excludes* members of the public. These items include issues related to personnel, pending litigation, labor negotiations and real estate negotiations. Prior to each closed session, the Chair will announce the subject matter of the closed session. If action is taken in closed session, the Chair may report the action to the public at the conclusion of the closed session.

**Public Testimony on an Item** – Members of the public are afforded an opportunity to speak on any listed item. Individuals wishing to address the Board of Directors or Policy Committee Members should complete a "Request to Speak" form, provided at the rear of the meeting room, and present it to the Clerk prior to the Board's consideration of the item. A "Request to Speak" form must be completed for *each* item an individual wishes to speak on. When recognized by the Chair, speakers should be prepared to step forward and announce their name and address for the record. In the interest of facilitating the business of the Board, speakers are limited to three (3) minutes on each item. Additionally, a twelve (12) minute limitation is established for the total amount of time any one individual may address the Board at any one meeting. The Chair or a majority of the Board may establish a different time limit as appropriate, and parties to agenda items shall not be subject to the time limitations.

The Consent Calendar is considered a single item, thus the three (3) minute rule applies. Consent Calendar items can be pulled at Board member request and will be brought up individually at the specified time in the agenda allowing further public comment on those items.

**Agenda Times** – The Board is concerned that discussion take place in a timely and efficient manner. Agendas may be prepared with estimated times for categorical areas and certain topics to be discussed. These times may vary according to the length of presentation and amount of resulting discussion on agenda items.

**Public Comment** – At the end of the agenda, an opportunity is also provided for members of the public to speak on any subject within the Board's authority. *Matters raised under "Public Comment" may not be acted upon at that meeting. "Public Testimony on any Item" still apply.*

**Disruptive Conduct** – If any meeting of the Board is willfully disrupted by a person or by a group of persons so as to render the orderly conduct of the meeting impossible, the Chair may recess the meeting or order the person, group or groups of person willfully disrupting the meeting to leave the meeting or to be removed from the meeting. Disruptive conduct includes addressing the Board without first being recognized, not addressing the subject before the Board, repetitiously addressing the same subject, failing to relinquish the podium when requested to do so, or otherwise preventing the Board from conducting its meeting in an orderly manner. *Please be aware that a NO SMOKING policy has been established for meetings. Your cooperation is appreciated!*

- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

*Minute Action*

AGENDA ITEM 1

**Date:** September 21, 2006

**Subject:** Information Relative to Possible Conflict of Interest

**Recommendation\*:** Note agenda items and contractors/subcontractors, which may require member abstentions due to possible conflicts of interest.

**Background:** In accordance with California Government Code 84308, members of the SANBAG Board may not participate in the any action concerning a contract where they have received a campaign contribution of more than \$250 in the prior twelve months from an entity or individual, except for the initial award of a competitively bid public works contract. This agenda contains recommendations for action relative to the following contractors:

Item No.	Contract No.	Principals & Agents	Subcontractors
4A	04-005	Yeager/Skanska Alex Medyn	Sudhakar Company Statewide Safety & Sign Dywidag Systems Int'l CGO RMD Moore Electric Alcorn Fence L. Johnson Erosion Control

\*

*Approved*

*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor: Opposed:*

*Witnessed: \_\_\_\_\_*

5A	04-018	Brutoco Engineering & Construction <i>Mike Murphy</i>	Ortiz – A.C. Alcorn Fencing Anderson Drilling Modern Alloys JV Landclearing Pavement Recycling ACL Moore Signs & Lighting Pacific Restoration Harbor Co. Reycon Sudhakar Avar-Campbell Franklin Reinf. Steel
5B	05-014	Atkinson Contractors <i>Scott Lynn</i> <i>Kent Reiman</i>	All American Asphalt Modern Alloys Diversified Landscaping JV Land Clearing Valley Concrete Placing Coffman Specialties Alcorn Fence Coral Construction Sudhakar Company Dywidag Systems Highlight Electric Regional Steel Anderson Drilling
5C	05-005	Atkinson Contractors <i>Scott Lynn</i> <i>Kent Reiman</i>  MCM <i>H McGovern</i>	All American Asphalt Modern Alloys Diversified Landscaping JV Land Clearing Valley Concrete Placing Coffman Specialties Alcorn Fence Coral Construction Sudhakar Company Dywidag Systems Highlight Electric Regional Steel



5D	06-001	Atkinson Contractors <i>Scott Lyon</i> <i>Kent Reiman</i>	West Coast Demo Penhall Moore Electric CGO Construction United Steel Placers Superior Gunitite ACL Reycon Diversified Landscape Modern Alloys Statewide Safety Sudhakar Anderson Drilling DSI Ulmer Industries CTM Ortiz Asphalt Paving Alcorn Fence
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**Financial Impact:** This item has no direct impact on the SANBAG budget.

**Reviewed By:** This item is prepared monthly for review by SANBAG Board and Committee members.

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AGENDA ITEM 2  
MAJOR PROJECTS COMMITTEE ATTENDANCE ROSTER - 2006

Name	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Paul Eaton	X	CANCELLED	X		X		X	CANCELLED				
John Pomierski			X	X	X	X	X					
Paul Biane	X		X	X		X	X					
Deirdre Bennett							X					
Kelly Chastain	X		X	X	X	X	X					
Robert Christman			X	X	X	X	X					
Bea Cortes	X		X	X	X	X	X					
Pat Gilbreath	X		X	X	X	X	X					
Josie Gonzales			X	X		X	X					
Dennis Hansberger			X									
Larry McCallon			X	X	X		X					
Pat Morris	(Judith Valles) X		X	X	X	X	X					
Gwenn Norton-Perry												
Mark Nuaimi			X		X		X					
Gary Ovitt	X		X	X								
Richard Riddell	X		X	X	X	X	X					
Grace Vargas (Ed Scott)	X		X			X						
Alan Wapner	X		X	X		X	X					
Diane Williams	X		X	X		X	X					
Dennis Yates	X					X	X					

X - attended meeting.

The crossed-out boxes indicate members who were not on the committee as of that month.

The empty boxes indicate member who did not attend the meeting that month.

**AGENDA ITEM 2**

**MAJOR PROJECTS COMMITTEE ATTENDANCE ROSTER - 2005**

Name	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Paul Eaton	X	X	X	X	cancelled	X	cancelled	X	cancelled	X	X	X
John Pomierski	X	X	X								X	X
Paul Biane	X	X		X		X				X		
Kelly Chastain	X	X	X			X		X		X	X	X
Robert Christman		X	X	X		X		X		X		
Bea Cortes			X	X				X		X	X	X
Pat Gilbreath	X	X	X	X		X		X		X	X	X
Josie Gonzales	X		X	X		X				X		X
Dennis Hansberger	X	X	X							X	X	
Larry McCallon		X						X		X		X
Gwenn Norton-Perry								X			X	X
Mark Nuaimi		X						X		X		
Gary Ovitt	X	X	X	X								X
Richard Riddell	X	X	X	X		X		X			X	X
Judith Valles		X	X					X			X	X
Grace Vargas (Ed Scott)	X			X		X		(X)		X		X
Alan Wapner		X		X		X						
Diane Williams		X	X	X		X		X		X		X
Dennis Yates	X	X	X	X						X	X	X

X- indicates member attended meeting.  
 Crossed out box indicates member is no longer a Board Member. \*\* - indicates new member

- 
- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority
  - San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies
- 

*Minute Action*

AGENDA ITEM: 3

**Date:** September 21, 2006

**Subject:** Major Projects Committee July meeting minutes

**Recommendation:\*** Approve minutes for the July Major Projects Committee meeting.

**Background:** See attached.

**Financial Impact:** No financial impact. TN 81507000.

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006.

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

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*Approved*

*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor: Opposed: Abstained:*

*Witnessed: \_\_\_\_\_*

## MINUTES SUMMARY

### Major Projects Committee

July 13, 2006, 9:00 a.m.

#### Location:

#### SANBAG Offices

1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor

San Bernardino, CA 92410

*The Super Chief Room*

#### Major Projects Committee Attendance

##### Chair

John Pomierski, Mayor  
*City of Upland*

Dennis Yates, Mayor  
*City of Chino*

Robert Christman, Council  
*City of Loma Linda*

##### Vice-Chair

Grace Vargas, Mayor  
*City of Rialto*

Deirdre Bennett, Mayor  
*City of Colton*

Paul M. Eaton, Mayor  
*City of Montclair*

Paul Biane, Supervisor  
*County of San Bernardino*

Mark Nuaimi, Mayor  
*City of Fontana*

Alan Wapner, Mayor Pro Tem  
*City of Ontario*

Josie Gonzales, Supervisor  
*County of San Bernardino*

Bea Cortes, Mayor Pro Tem  
*City of Grand Terrace*

Diane Williams, Mayor Pro Tem  
*City of Rancho Cucamonga*

Larry McCallon, Council  
*City of Highland*

Pat Gilbreath, Mayor Pro Tem  
*City of Redlands*

Pat Morris, Mayor  
*City of San Bernardino*

Richard Riddell, Mayor  
*City of Yucaipa*

San Bernardino Associated Governments  
County Transportation Commission  
County Transportation Authority  
Service Authority for Freeway Emergencies  
County Congestion Management Agency

**Major Projects Committee**

**July 13, 2006**

**9:00 a.m.**

**LOCATION:**

**Santa Fe Depot**

**1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor, San Bernardino**  
***The Super Chief Room***

**CALL TO ORDER - 9:00 a.m.**

*(Meeting chaired by Mayor John Pomierski.)*

- I. Agenda Notices/Modifications
- II. Announcements

1. **Possible Conflict of Interest Issues for the SANBAG Major Projects Meeting of July 13, 2006** Pg. 7

Note agenda item contractors, subcontractors and agents which may require member abstentions due to conflict of interest and financial interests. Member abstentions shall be stated and recorded on the appropriate item in the minutes summary for each month.

**Consent Calendar**

Consent Calendar items shall be adopted by a single vote unless removed by Board member request. Items pulled from the consent calendar will be brought up at the end of the agenda.

2. **Major Projects Attendance Roster** Pg. 11

A quorum shall consist of a majority of the membership of each SANBAG Policy Committee, except that all County Representatives shall be counted as one for the purpose of establishing a quorum.

3. **Approval of the June Meeting Minutes** Pg. 13

***Notes/Action***

**See each item  
for conflicts.**

**MOTION:**  
**Eaton**  
**SECOND:**  
**Yates**  
**Motion carried.**

**Consent Calendar Cont'd**

4. Construction Change Orders to Ongoing SANBAG Construction Contracts with Yeager/Skanska, Inc. Pg. 21

Review and Ratify Change Orders. TN 82407000. Darren Kettle

MOTION:  
Eaton  
SECOND:  
Yates  
ABSTAINED:  
Cortes  
Gilbreath  
Gonzales  
Motion carried.

5. Construction Change Orders to Ongoing SANBAG Construction Contracts with Brutoco Engineering & Construction, Atkinson Contractors LP, and Atkinson/MCM JV, and Tony's Multi-Service Firm, Inc. Pg. 25

Review and Ratify Change Orders. TN 82407000. Darren Kettle

MOTION:  
Eaton  
SECOND:  
Yates  
ABSTAINED:  
Wapner  
Motion carried.

**Discussion Calendar**

6. Professional Services Agreement No. 06-018 with Peckar and Abramson for legal services for Route 71 Landscape Project litigation Pg. 37

Approve amendment no. 1 to Agreement 06-018 with Peckar and Abramson increasing the not to exceed amount by \$100,000 for a total not to exceed amount of \$200,000. Darren Kettle

MOTION:  
Eaton  
SECOND:  
Vargas  
OPPOSED:  
Christman  
Morris  
Motion carried.

This item will go to the ne

7. Lease Agreement C07025 for construction field office space for I-215 5<sup>th</sup> Street Bridge Project Pg. 47

Approve Lease Agreement C07025 with Mountain Business Park/Pacific Day Capital for 1,909 square feet for two years at an initial rate of \$1.25 per square foot for construction field office space for the Interstate 215 5<sup>th</sup> Street Bridge Project. Darren Kettle

MOTION:  
Christman  
SECOND:  
Vargas  
Motion carried.

8. Request for Qualifications (RFQ) No. C07026 for State Street/University Parkway Grade Separation Construction Management Pg. 69

Authorize staff to release Request for Qualifications (RFQ) No. C07026 for State Street/University Parkway Grade Separation Construction Management. Darren Kettle

MOTION:  
McCallon  
SECOND:  
Christman  
Motion carried.



## 9. Major Projects Contract Negotiation Guidelines policy

Pg. 105

Discuss and provide guidance on revision to Major Project Contract Negotiation Guidelines. Darren Kettle

*Biane and Gonzales arrived to the meeting.*

*It was the consensus of the committee to have staff eliminate the current policy and bring other options, such as a sliding scale similar to other organizations, to the Major Projects Committee before going to the Board of Directors.*

## 10. Measure I 2010-2040 Major Freeway Project – Project Development Advancement Pg. 107

Authorize staff to develop necessary legal/finance instruments to use current Measure I funds to “finance” project development activities for two Measure I 2010-2040 Major Freeway Projects, the Devore Interchange Project and the Interstate 10 High Occupancy Lane (HOV) project, to be repaid from Measure I 2010-2040 revenues. Darren Kettle

MOTION:

Christman

SECOND:

Bennett

Motion carried.

## 11. Acronym Listing

Pg. 111

## 12. Additional Items from Committee Members

*Mayor Gilbreath mentioned how appalling it is that our workers in the high desert have to be protected by the CHP due to the crime. She also commended Atkinson workers who caught a purse snatcher in Redlands, who also turn out to be wanted for numerous crimes.*

*Mayor Morris asked that agenda item 6 be put on Closed Session at the August Board of Directors meeting to bring newer members up-to-date on this project.*

## 13. Brief Comments by General Public

## 14. Director's Comments

ADJOURNMENT @10:00 a.m.

The next Major Projects Meeting  
is August 10, 2006.

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- San Bernardino County Transportation Commission
- San Bernardino County Transportation Authority
- San Bernardino County Congestion Management Agency
- Service Authority for Freeway Emergencies

## *Minute Action*

AGENDA ITEM: 4

**Date:** September 21, 2006

**Subject:** Construction Change Orders to On-going SANBAG Construction Contracts with Yeager/Skanska

**Recommendation:**\* Review and ratify change orders.

**Background:** This item addresses only on-going construction contracts with Yeager/Skanska, Inc.

As directed by SANBAG Board action on September 1, 1999, the status of construction change orders (CCO's) is presented below:

- A. CN 04-005 with Yeager/Skanska, Inc. for construction of State Route 210 Segment 10 early project: No new CCOs have been approved since the last Major Projects Committee action.

**Financial Impact:** This item imposes no financial impact, as all CCO's are within previously approved contingency amounts. TN 82407.

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006.

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

*Approved*  
*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor:    Opposed:    Abstained:*

*Witnessed:* \_\_\_\_\_

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## *Minute Action*

AGENDA ITEM: 5

*Date:* September 21, 2006

*Subject:* Construction Change Orders to On-going SANBAG Construction Contracts with Brutoco Engineering & Construction, Atkinson Contractors LP, Atkinson/MCM JV, and Tony's Multi-Service Firm, Inc.

*Recommendation:*\* Review and ratify change orders.

*Background:* This item addresses on-going construction contracts with Brutoco Engineering & Construction, Inc, Atkinson Contractors LP, Atkinson/MCM JV, and Tony's Multi-Service Firm, Inc.

As directed by SANBAG Board action on September 1, 1999, the status of construction change orders (CCOs) is presented below:

- A. CN 04-018 with Brutoco Engineering & Construction for construction of I-10 Truck Climbing Lane project: No new CCOs have been approved since the last Major Projects Committee action.
- B. CN 05-014 with Atkinson Contractors, LP for construction of SR-210 Segments 9/10/11 Mainline project: CCO No. 32 Supplemental No. 1 (\$100,000 increase for construction of retaining wall near Galway/shopping center), CCO No. 43 (\$103,227 increase for additional erosion control near Cactus basin), CCO No. 49 (\$22,308 increase for extending storm drain from Adams St. - Seg 11), CCO No. 54 (\$102,760 increase for additional slope work near channel), CCO No. 55 (\$83,742 increase for repairs to S/W and drainage facility

*Approved*  
*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor: Opposed: Abstained:*

*Witnessed:* \_\_\_\_\_

in Seg 10), CCO No. 56 (\$90,858 increase for concrete gutter item adjustment), and CCO No. 58 (\$2,674 increase for retaining wall barrier closure) have been approved since the last Major Projects Committee action.

- C. CN 05-005 with Atkinson Contractors/MCM JV for construction of SR-210 Segment 11 Early project: CCO No. 24 (\$30,000 increase for modifications to State St. storm drain) and CCO No. 25 (\$43,050 increases for additional slope paving near State Street) have been approved since the last Major Projects Committee action.
- D. CN 06-001 with Atkinson Contractors, LP for construction of I-10 Median Mixed-Flow Lane project: CCO No. 14 (\$7,630 increase for additional concrete removal) has been approved since the last Major Projects Committee action.
- E. CN 06-016 with Tony's Multi-Service Firm, Inc. for construction of SR-210 Segment 1 Landscaping: No new CCOs have been approved since the last Major Projects Committee action.
- F. CN 06-017 with Tony's Multi-Service Firm, Inc. for construction of SR-210 Segment 2 Landscaping: CCO No. 2 (\$25,000 increase for irrigation crossovers) has been approved since the last Major Projects Committee action.

**Financial Impact:** This item imposes no financial impact, as all CCOs are within previously approved contingency amounts. TN 82407 and TN 86007.

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

**San Bernardino Associated Governments**  
**CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG**

(Updated: 09/11/2006)

SEGMENTS 9, 10, 11 MAINLINE  
 Contract No. 05-014

CCO NO.	DESCRIPTION	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CT/FHWA Concurrence		SABAG Approval		DATE APPROVED	STATUS/REMARKS	
									TO	FROM	TO	FROM	TO	FROM			
*CONTINGENCY & SUPPLEMENTAL WORK BUDGET >>>																	
						\$11,062,039.52			Contract Bid Amount >>>								\$98,383,665.18
1	MAINTAIN ROADWAY AND TRAFFIC CONTROL ...	EWFA	0					1/27/05	1/27/05	2/2/05	1/28/05	5/20/05	2/4/05	2/10/05	2/10/05	Approved & Implemented	
(S)				\$45,000.00	0.05%	\$45,000.00	\$ 11,017,039.52		2/10/05	<< Approved Copies			2/8/05	2/10/05			
1	ADDITIONAL FUNDS FOR CCO 1	EWFA	0	\$45,000.00				6/24/05	n/a	n/a	n/a	n/a	6/30/05	7/6/05	7/6/05	Approved & Implemented	
S1				\$45,000.00	0.05%	\$90,000.00	\$ 10,972,039.52		7/6/05	<< Approved Copies							
1	ADDITIONAL FUNDS FOR CCO 1	EWFA		\$100,000.00				10/12/05	11/8/05	N/A	4/5/06	4/5/06	10/12/05	10/12/05	11/4/05	Approved & Implemented	
S2*				\$100,000.00	0.10%	\$190,000.00	\$ 10,872,039.52		11/8/05	<< Approved Copies							
1	ADDITIONAL FUNDS FOR CCO 1	EWFA		\$115,000.00				3/30/06	N/A	N/A	4/5/06	2/21/06	4/3/06	4/5/06	4/5/06	Approved & Implemented	
S3				\$115,000.00	0.12%	\$305,000.00	\$ 10,757,039.52	1/27/05	4/5/06	<< Approved Copies	1/28/05	5/20/05	2/4/05	2/10/05	2/10/05	Approved & Implemented	
2	MAINTAIN EXISTING AND TEMPORARY ELECTRICAL SYSTEM	EWFA	0	\$50,000.00					1/27/05	2/2/05	2/15/05	2/10/05	2/8/05	2/10/05		Approved & Implemented	
S1				\$50,000.00	0.05%	\$355,000.00	\$ 10,707,039.52	10/27/05	N/A	N/A	Follow Up	6/28/06	10/27/05	11/21/05	11/21/05	Approved & Implemented	
2	ADDITIONAL FUNDS	EWFA		\$65,000.00					11/21/05	<< Approved Copies						Approved & Implemented	
S1				\$65,000.00	0.07%	\$420,000.00	\$ 10,642,039.52	2/2/05	2/2/05	2/15/05	2/10/05	5/20/05	2/15/05	2/17/05	2/17/05	Approved & Implemented	
3	FEDERAL APPRENTICESHIP TRAINING	ACUP	0	\$49,920.00					2/17/05	<< Approved Copies						Approved & Implemented	
(S)				\$49,920.00	0.05%	\$469,920.00	\$ 10,592,119.52	3/4/05	3/16/05	3/22/05	3/7/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
4	ACACIA CUL-DE-SAC	EWFA ITEM	0	\$33,149.00					3/29/05	<< Approved Copies						Approved & Implemented	
S1				\$33,149.00	0.04%	\$508,069.00	\$ 10,553,970.52	2/17/05	2/8/05	2/15/05	2/8/05	5/20/05	2/16/05	2/17/05	2/17/05	Approved & Implemented	
5	CUT, TRIM, REMOVE & DISPOSE OLEANDERS & MISC. SHRUBS ALONG ...	EWFA	0	\$35,000.00					2/17/05	<< Approved Copies						Approved & Implemented	
S1				\$35,000.00	0.04%	\$543,069.00	\$ 10,518,970.52	4/17/06	N/A	N/A	4/19/06 (Contest)	4/24/06	4/17/06	4/19/06	4/19/06	Approved & Implemented	
5	ADDITIONAL FUNDS FOR CCO 5	EWFA	0	\$38,000.00					4/19/06	<< Approved Copies						Approved & Implemented	
S1				\$38,000.00	0.04%	\$581,069.00	\$ 10,480,970.52	3/4/05	4/19/06	<< Approved Copies	3/7/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
6	STRIPING PLANS FOR HIGHLAND DETOUR	EWFA ITEM	0	\$15,000.00					3/16/05	3/22/05	3/7/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
S1				\$15,000.00	0.03%	\$612,069.00	\$ 10,449,970.52	2/15/05	2/17/05	<< Approved Copies	3/8/05	5/20/05	3/8/05	3/16/05	3/16/05	Approved & Implemented	
7	REVISED PLAN SHEETS (CLARIFICATIONS)	NCNC	0	\$0.00					2/15/05	<< Approved Copies						Approved & Implemented	
S1				\$0.00	0.00%	\$612,069.00	\$ 10,449,970.52	3/7/05	3/16/05	<< Approved Copies	3/22/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
8	MAN- MADE BURIED OBJECTS	EWFA	0	\$30,000.00					5/25/05	N/A	N/A	Follow Up Request	5/23/05	5/26/05	5/25/05	Approved & Implemented	
S1				\$30,000.00	0.03%	\$642,069.00	\$ 10,419,970.52	11/21/05	5/31/05	<< Approved Copies	N/A	6/23/06	11/22/05	11/29/05	11/29/05	Approved & Implemented	
8	ADDITIONAL FUNDS	EWFA	0	\$45,000.00					5/31/05	<< Approved Copies						Approved & Implemented	
S2				\$45,000.00	0.05%	\$687,069.00	\$ 10,374,970.52	3/7/05	11/30/05	<< Approved Copies	3/8/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
8	ADDITIONAL FUNDS	EWFA	0	\$40,000.00					11/30/05	<< Approved Copies						Approved & Implemented	
S2				\$40,000.00	0.04%	\$727,069.00	\$ 10,334,970.52	3/7/05	3/16/05	3/22/05	3/22/05	5/20/05	3/22/05	3/28/05	3/29/05	Approved & Implemented	
9	MAINTAIN UTILITY FACILITIES	EWFA	0	\$30,000.00					3/29/05	<< Approved Copies						Approved & Implemented	
S1				\$30,000.00	0.03%	\$757,069.00	\$ 10,304,970.52	9/26/05	N/A	N/A	6/23/06	7/5/06	9/26/05	9/28/05	9/28/05	Approved & Implemented	
9	ADDITIONAL FUNDS	EWFA		\$40,000.00					N/A	N/A	N/A	Approved Copies	9/26/05	9/28/05	9/28/05	Approved & Implemented	

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## San Bernardino Associated Governments

SEGMENTS 9, 10, 11 MAINLINE

## CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG

(Updated: 09/11/2006)

Contract No. 05-014

COO NO.	DESCRIPTION (S) - With Supplemental \$	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CT/FHWA Concurrence		SANBAG Approval		DATE APPROVED	STATUS/REMARKS
									TO	FROM	TO	FROM	TO	FROM		
9	ADDITIONAL FUNDS	EWFA		\$40,000.00	0.04%	\$797,069.00	\$ 10,204,970.52	7/18/06	9/28/05	<< Approved Copies	N/A	N/A	7/18/06			IN PROCESS
S2				\$45,000.00		\$842,069.00	\$ 10,219,970.52									
10	REMOVE TEMPORARY LIGHTING ALONG HIGHLAND	EWFA	0	\$30,000.00	0.05%	\$872,069.00	\$ 10,189,970.52	3/21/05	3/22/05	3/28/05	3/22/05 & Email	3/24/05	3/28/05	3/31/05	3/30/05	Approved & Implemented
11	GRAFFITI REMOVAL	EWFA	0	\$30,000.00	0.03%	\$882,069.00	\$ 10,159,970.52	3/31/05	4/1/05	4/4/05	4/4/05	5/16/05	4/4/05	4/5/05	4/5/05	Approved & Implemented
12	REVISED DRAINAGE PLANS - SEGMENT 11	ITEM	0	\$10,000.00	0.01%	\$892,069.00	\$ 10,179,970.52	4/7/05	4/11/05	5/6/05	4/11/05	5/16/05	5/9/05	5/18/05	5/18/05	Approved & Implemented
13	ADJUSTMENT TO VARIOUS ELECTRICAL BID ITEMS	ACLS		\$63,410.40	0.06%	\$945,479.40	\$ 10,116,560.12	8/9/06	5/18/05	<< Approved Copies	8/11/06		8/23/06	8/10/06		To Atlas & CT - 8/11/06
14	ADDITIONAL BNSF INSURANCE COVERAGE	ACLS	0	\$5,784.13	0.01%	\$951,263.53	\$ 10,110,775.99	5/27/05	6/3/05	6/30/05	6/5/05 email	8/10/05	7/5/05	7/6/05	7/6/05	Approved & Implemented
15	ELECTRICAL SERVICE CONNECTION FEES	EWFA	0	\$20,152.87	0.02%	\$971,416.20	\$ 10,090,623.32	5/3/05	7/6/05	<< Approved Copies	5/3/05	5/6/05	8/10/05	5/9/05	5/18/05	Approved & Implemented
S1				\$30,000.00		\$1,001,416.20	\$ 10,060,623.32		5/18/05	<< Approved Copies						IN PROCESS - On Hold for additional scope
16	MODIFY VULCAN EAST DRIVEWAY	EWFA	0	\$150,000.00	0.15%	\$1,151,416.20	\$ 9,910,623.32	7/15/05	7/21/05				8/1/05	8/9/05	8/9/05	Approved & Implemented
16 S1				\$15,000.00	0.02%	\$1,166,416.20	\$ 9,895,623.32	9/21/05	8/10/05	<< Approved Copies	N/A	6/23/06	7/5/06	9/21/05	9/26/05	Approved & Implemented
16 S2				\$15,000.00	0.02%	\$1,181,416.20	\$ 9,880,623.32	12/7/05	9/26/05	<< Approved Copies	N/A	6/23/06	7/5/06	12/7/05	12/12/05	Approved & Implemented
17	SWPPP MAINTENANCE SHARING	EWFA	0	\$30,000.00	0.03%	\$1,211,416.20	\$ 9,850,623.32	5/3/05	12/13/05	<< Approved Copies	5/3/05	5/17/05	8/1/05	5/9/05	5/18/05	Approved & Implemented
(S)				\$40,000.00		\$1,251,416.20	\$ 9,810,623.32	5/17/05	5/18/05	<< Approved Copies	5/26/05	5/26/05 email	8/1/05	6/1/05	6/2/05	Approved & Implemented
18	REVISION TO N LINE PROFILE	NCNC	0	\$0.00		\$1,251,416.20	\$ 9,810,623.32	4/15/05	5/26/05	<< Approved Copies	6/1/05	6/10/05 email	8/1/05	6/13/05	6/15/05	Approved & Implemented
19	ILLEGIT DUMPING	EWFA	0	\$30,000.00	0.03%	\$1,281,416.20	\$ 9,780,623.32	5/27/05	6/16/05	<< Approved Copies	6/16/05	6/2/05 email	8/1/05	6/9/05	6/15/05	Approved & Implemented
20	AYALA PIPE EXTENSION	EWFA	0	\$15,000.00		\$1,296,416.20	\$ 9,765,623.32	7/14/05	7/15/05	<< Approved Copies	7/22/05	7/15/05	7/22/05	7/26/05	7/26/05	Approved & Implemented
21	SBCFCD MAINTENANCE TURN-	EWFA	0	\$15,000.00	0.02%											Approved & Implemented



## CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG

SEGMENTS 9, 10, 11 MAINLINE

Contract No. 05-014

(Updated: 09/11/2006)

COO NO.	DESCRIPTION (S) = With Supplemental \$ AROUND-SEGMENT 9	PAY MTD	TIME EXT.	COO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		C/FHWA Concurrence		SMBAG Approval		DATE APPROVED	STATUS/REMARKS
									TO	FROM	TO	FROM	TO	FROM		
22	PROVIDE PEPPER AVE ACCESS - Segment 10	ITEM	0	\$15,000.00 \$11,331.36	0.02%	\$1,311,416.20 \$	9,750,623.32	5/23/05	7/27/05	<< Approved Copies	5/26/05	7/28/05	6/17/05	6/23/05	6/23/05	Approved & Implemented
22	ADDITIONAL FUNDS	BWFA		\$11,331.36 \$2,000.00	0.01%	\$1,322,747.56 \$	9,739,291.96	8/18/05	8/22/05	<< Approved Copies	8/31/05	9/8/05	9/8/05	9/19/05	9/19/05	Approved & Implemented
23	DRAINAGE DETAILS & INCREASED PIPE SIZES IN SEGMENT 9	ITEM		\$2,000.00 \$7,446.00	0.00%	\$1,324,747.56 \$	9,737,291.96	8/18/05 10/3/05 12/5/05	9/19/05	<< Approved Copies	9/30/05	9/9/05	8/18/05 10/4/05 12/16/05	12/6/05	12/6/05	Approved & Implemented
24	SEGMENT 11 DRAINAGE REVISION	ITEM BWFA	0	\$7,446.00 \$12,852.80 \$2,500.00	0.01%	\$1,332,193.56 \$	9,729,845.96	6/6/05	6/17/05	<< Approved Copies	6/30/05	6/17/05	7/5/05	7/6/05	7/6/05	Approved & Implemented
25	ADDITIONAL DRAINAGE WORK / MODIFY NEW & EXISTING DRAINAGE FACILITIES	BWFA	0	\$15,352.80 \$30,000.00	0.02%	\$1,347,546.36 \$	9,714,493.16	6/16/05	7/6/05	<< Approved Copies	6/28/05	6/17/05	7/5/05	7/6/05	7/6/05	Approved & Implemented
25	ADDITIONAL FUNDS	BWFA		\$30,000.00 \$140,000.00	0.03%	\$1,377,546.36 \$	9,684,493.16	7/19/06	7/6/05	<< Approved Copies			7/19/06	8/22/06		IN PROCESS
26	MODIFICATIONS TO THE INTERSECTIONS OF LILAC/CASABALIA AND LILAC/TAHOE	BWFA	0	\$140,000.00 \$55,000.00	0.14%	\$1,517,546.36 \$	9,544,493.16	10/28/05	11/22/05	<< Approved Copies	12/5/05	12/1/05	12/1/05	12/7/05	12/7/05	Approved & Implemented
27	SBCFCD MAINTENANCE TURN-AROUND- SEGMENT 11	BWFA	0	\$55,000.00 \$10,000.00	0.06%	\$1,572,546.36 \$	9,489,493.16	7/18/05 12/1/05	12/7/05	<< Approved Copies	7/29/05	8/17/05	12/6/05	12/7/05	12/7/05	Approved & Implemented
27	ADDITIONAL FUNDS	BWFA	0	\$10,000.00 \$45,000.00	0.01%	\$1,582,546.36 \$	9,479,493.16	5/9/06	N/A	N/A	<< Approved Copies		5/9/06	6/26/06	6/26/06	Approved & Implemented
28	SEGMENT 10 BRIDGE WELDED STEEL CASING PAYMENT	EWLS	0	\$45,000.00 \$52,932.24	0.05%	\$1,627,546.36 \$	9,434,493.16	12/5/05 12/7/05	6/26/06	<< Approved Copies			12/5/05 12/16/05	12/8/05 1/9/06	1/9/06	Approved & Implemented
29	SEGMENT 10 EARLY PUNCHLIST ITEMS @ RIVERSIDE AND EASTON	BWFA ADJ	0	\$52,932.24 \$40,000.00 -\$9,799.99	0.05%	\$1,680,478.60 \$	9,381,560.92	4/7/06	4/14/06	<< Approved Copies	5/3/06	4/28/06	4/10/06 5/3/06	4/13/06 5/9/06	5/8/06	Approved & Implemented
30	SEGMENT 9 & 10 EARLY SOUNDWALL COMPLETION	ITEM BWFA	0	\$30,200.01 \$26,697.40 \$120,000.00	0.03%	\$1,710,678.61 \$	9,351,560.91	2/28/06	3/10/06	<< Approved Copies	4/3/06	4/19/06	3/8/06 4/3/06	3/4/06 4/17/06	4/17/06	Approved & Implemented. CCO Transm-Revised per CT
31	MSE WALL CHANGE	ITEM ACLS	0	\$146,897.40 \$96,331.00 -\$21,238.00	0.15%	\$1,857,576.01 \$	9,204,463.51	8/15/05	4/17/06	<< Approved Copies	9/19/05	8/17/05	9/15/05 10/4/05	10/7/05	10/7/05	Approved & Implemented
31	MSE WALL ADDITIONAL CHANGES	ITEM BWFA	0	\$75,093.00 -\$27,335.00 \$41,820.00	0.08%	\$1,932,669.01 \$	9,129,370.51	1/18/06	1/26/06	<< Approved Copies			1/18/06	1/26/06		IN PROCESS
32	SEG 10 EARLY PUNCHLIST: RELOC WWD & SBC UTILITIES @ RIVERSIDE AND GALWAY INTERS.	EWLS BWFA	0	\$14,485.00 \$58,499.35 \$5,000.00	0.01%	\$1,947,154.01 \$	9,114,885.51	3/24/06	3/29/06	Revised Transmittal Per CT >>	4/11/06	3/29/06	3/24/06 4/14/06	3/29/06 4/19/06	4/19/06	Approved & Implemented; Revised Trans -

## San Bernardino Associated Governments

## SEGMENTS 9, 10, 11 MAINLINE

## CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG

(Updated: 09/11/2006)

Contract No. 05-014

CCO NO.	DESCRIPTION (S) = With Supplemental \$	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CTFHWA Concurrence		SABAG Approval		DATE APPROVED	STATUS/ REMARKS
									TO	FROM	TO	FROM	TO	FROM		
				\$63,499.35	0.05%	\$2,010,653.36	\$ 9,051,386.16		4/19/06						6/22/06	Approved & Implemented
32	CONSTRUCT RETAINING WALL 1195 @ NW RIVERSIDE & GALWAY	EWFA		\$100,000.00				6/8/06	6/23/06	7/5/06	6/30/06	6/8/06	6/23/06	7/14/06	7/14/06	Approved & Implemented
32	INTERSECTION SIGNALIZATION & DRIVEWAY DESIGN			\$100,000.00	0.10%	\$2,110,653.36	\$ 8,951,386.16									AWAITING Contractor's Cost Estimate 08-30-05
33	REVISE FIBER OPTIC CONDUIT SYSTEM 103C IN SEGMENTS 9 & 11	ITEM ADJ		\$0.00	0.00%	\$2,110,653.36	\$ 8,951,386.16									
34	DRAINAGE SYSTEM 5A ALIGNMENT MODIFICATION	ITEM ACLS		\$25,956.00				3/20/06	3/21/06	5/3/06	4/6/06	3/20/06	3/21/06	5/31/06	5/31/06	Approved & Implemented
35	ADD WB AUXILIARY LANE & SIGN STRUCTURE CHANGES	ITEM ACLS		\$141,876.00	0.14%	\$2,249,758.30	\$ 8,812,281.22		5/31/06	4/19/06	4/19/06	4/27/06	3/23/06	5/3/06	5/3/06	Approved & Implemented
36	PARTIAL OPENING OF 210 FWY - SIERRA TO ADLER	EWFA	0	\$45,000.00				3/27/06	3/29/06	5/9/06	4/6/06	3/27/06	3/29/06	3/29/06	9/26/05	FORWARDED TO ATKN & CALTRANS 3/29/06
37	MBGR PER 2004 STANDARD SPECS	NCNC	0	\$0.00				9/15/05	9/16/05	9/22/05	9/16/05	9/20/05	9/22/05	9/26/05	9/26/05	Approved & Implemented
38	CACTUS STREET MODIFICATIONS	EWFA ITEM	0	\$20,000.00				1/3/06	1/19/06	4/3/06	1/19/06	1/27/06	4/4/06	4/5/06	4/5/06	Approved & Implemented
39	PEDESTRIAN OPENINGS - 27TH & CALIFORNIA	ACLS	0	\$6,559.08				2/21/06	3/13/06	4/3/06	3/13/06	4/6/06	2/22/06	4/3/06	4/5/06	Approved & Implemented
40	HIGHLAND / EASTON PROFILE REVISION	ITEM EWFA	0	\$4,547.58	0.01%	\$2,549,066.50	\$ 8,512,973.02		4/5/06	3/13/06	4/3/06	4/6/06	2/22/06	4/3/06	4/5/06	Approved & Implemented
40	CITY OF RIALTO WATERLINE RELOCATION ON EASTON	EWLS		\$87,492.15	0.08%	\$2,542,507.42	\$ 8,519,532.10		4/5/06	10/25/05	11/14/05	10/30/05	10/19/05	11/21/05	11/21/05	Approved & Implemented
40	FIRE DEPARTMENT BLOCK WALL AND IRRIGATION	EWFA		\$87,492.15	0.05%	\$2,646,106.23	\$ 8,415,933.29		10/19/05	10/25/05	11/17/05	11/20/05	11/17/05	11/17/05	2/28/06	Approved & Implemented
41	INCLUDE FIBER OPTIC AS MOH	NCNC	0	\$0.00				3/17/06	3/23/06	5/3/06	3/27/06	4/6/06	3/17/06	5/3/06	5/9/06	Approved & Implemented
42	DELETE PORTIONS OF IRRIGATION CROSSEOVERS SEG 9 AND EDGE DRAIN SEG 10	ITEM	0	\$24,060.00	0.04%	\$2,680,106.23	\$ 8,375,933.29		5/9/06				8/22/06			IN PROCESS
43	CACTUS CHANNEL BASIN EROSION CONTROL FOR SBCFCD	EWAP		\$103,227.83	0.02%	\$2,622,056.23	\$ 8,399,983.29		9/28/05	9/28/05	9/28/05	11/8/05	9/28/05	9/28/05	9/28/05	Approved & Implemented
44	DELETE QC/QA FOR ASPHALT	ACUP	0	\$-74,103.15	0.10%	\$2,725,284.06	\$ 8,296,755.46		9/28/05	11/15/05	11/30/05	11/17/05	10/28/05	11/30/05	1/9/06	Approved & Implemented
				\$103,227.83				9/12/06	6/23/06	6/28/06	6/23/06	7/24/06	6/12/06	5/25/06	6/23/06	Approved & Implemented
				\$103,227.83				1/5/06	1/11/06	2/28/06	10/28/05	12/20/05	4/5/06	4/11/06	3/15/06	Approved & Implemented

(Updated: 09/11/2006)

Contract No. 05-014

CCO NO.	DESCRIPTION (S) = With Supplemental \$	PAY MTD	TIME EXT.	OCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CIT/HWA Concurrence		SANBAG Approval		DATE APPROVED	STATUS/ REMARKS
									TO	FROM	TO	FROM	TO	FROM		
	CONCRETE															
45	SIGN STRUCTURE SPECS CHANGE	ITEM EWAP ACLS	0													
46	RETAINING WALL CONCRETE GUTTERS	ACUP														
47	REVISIONS TO DRAINAGE SYSTEM 7	ACLS ITEM														
48	CAJON OH BENT 2 ALTERNATIVE PILE	ITEM EWFA														
49	EXTEND EXISTING ADAMS ST. STORM DRAIN (OASIS) TO EAST OF UPRR RAILWAY	ITEM														
50	CACTUS V-DITCH AND OUTLET STRUCTURE	ITEM														
51	SLOPE PAVING - PEPPER, LILAC & 27TH	ITEM														
52	LOCAL STREET SIGNS - METAL POSTS IN LIEU OF WOOD	ACUP														
53	SOUNDWALL MASONRY BLOCK SPEC CHANGE	NCNC														
53	SOUNDWALL MASONRY BLOCK SPEC CHANGE ON BRIDGE STRUCTURES	NCNC														
54	PREPARE SLOPES @ CACTUS CHANNEL FOR EROSION CONTROL	EWAP														
55	SEG 9 REPAIR DRAINAGE FACILITY AT SW125N & SEG 10 DS 8F	ITEM ACLS														
56	ADJUST FOR CONCRETE GUTTER IN EXCESS OF 125% EE (SEG 10 & 11)	ACUP ITEM														
57	MODIFY DRAINAGE @ LILAC/CASIMILIA & HARDSCAPE @ LILAC/TAHOE															
58	RETAINING WALL 150 BARRIER CLOSURE	EWLS														
	SEWER RELOCATION @ SEGMENT 11 BASIN 5															

## San Bernardino Associated Governments

### CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG

Contract No. 05-014

CCO NO.	DESCRIPTION (S) = With Supplemental \$	PAY MID	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CI/HWA Concurrence		SANBAG Approval		DATE APPROVED	STATUS/REMARKS	
									TO	FROM	TO	FROM	TO	FROM			
60	ELIMINATE POC DIKE AND SHOULDER BACKING IN SEG 9	ITEM		\$0.00	0.00%	\$4,470,044.12	\$ 6,551,995.40	8/28/06	8/30/06	<< Approved Copies				8/30/06		IN PROCESS	
61	TEMPORARY TRAFFIC SIGNAL AT EASTON/HIGHLAND	RWPA ITEM		-\$84,368.00	-0.08%	\$4,385,676.12	\$ 6,636,363.40			<< Approved Copies						IN PROCESS	
62	ELIMINATE EDGE DRAIN IN SEGMENT 10			\$70,276.00	0.07%	\$4,455,952.12	\$ 6,566,087.40	9/5/06	9/6/06	<< Approved Copies				9/6/06		IN PROCESS	
				\$0.00						<< Approved Copies						IN PROCESS	
				\$0.00	0.00%	\$4,455,952.12	\$ 6,566,087.40			<< Approved Copies							
ITEM & CCO BALANCE OVERLINES / UNDERLINES																	
							\$ (655,351.42)										
TOTAL TO DATE: >>>&gt																	

## NOTES:

\* Includes Supplemental Funds & SANBAC Furnished Materials

[illegible]

81 432 969 55

SUMMARY OF OVERRUNS FOR ACTIVE ITEMS & CCO WORK					
ITEM NO.	\$ Overrun	\$ Balance	CCO NO.	\$ Overrun	\$ Balance
A13	-\$2,860.00		1,151,152	-77,059.79	
A19	-\$2,540.00		2,251		
A20	-\$3,078.00		3		
A34	-\$70.00		6		
B02	-\$17,600.00		8,851		
B11	-\$7,170.00		9,951	-36,307.95	
B12	-\$16,880.00		10		
B13	-\$9,723.60		11		
B36	-\$148,783.04		12		
B34	-\$22.42		13		
B90	-\$4,070.00		14		
B93			15	-49,907.71	
B95	-\$11,734.60		16,1651		
B98	-\$3,864.00		17	-22,714.66	
B106	-\$33,280.00		18		
B110			19	-6,232.85	
B158	-\$1,100.00		20	-1,387.84	
C15	-\$300.00		22,2251	-3,483.03	
C57	-\$1,441.64		23		
C153	-\$10,800.00		24	-2,866.99	
			25	-103,056.98	
			36	-1,697.60	
			38	-42,723.71	
			40	-29,645.01	
					As of Est. 20 (8/20/06)
					Total Overrun
					-\$655,351.42

**San Bernardino Associated Governments**  
**CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG**  
**SEGMENT II EARLY PROJECT**  
**CONTRACT No. 05-005**

(Updated: 09/11/2006)

CCO NO.	DESCRIPTION	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	RE. SIGN.	CONTRACTOR	TO	FROM	CT / FHWA Concurrence	SANBAG Approval	DATE APPROVED	STATUS/REMARKS
*CONTINGENCY & SUPPLEMENTAL WORK BUDGET >>> \$3,326,514.00															
1	MAINTAIN ROADWAY AND TRAFFIC CONTROL ...	EWFA	0	\$20,000.00				3/29/05	1/31/05	4/4/05	4/4/05	5/20/06	4/4/05	4/5/05	Approved & Implemented
(S)				\$20,000.00	0.05%	\$20,000.00	\$ 3,306,514.00		4/6/05	<< Approved Copies & Email					
1 S1	ADDITIONAL FUNDS	EWFA		\$40,000.00				11/18/05	N/A	N/A	N/A	N/A	11/18/05	11/29/05	Approved & Implemented
2	MAINTAIN EXISTING AND TEMPORARY ELECTRICAL SYSTEM	EWFA	0	\$40,000.00	0.13%	\$60,000.00	\$ 3,266,514.00	3/28/05	11/30/05	<< Approved Copies		5/16/05	4/4/05	4/5/05	Approved & Implemented
2 S1	ADDITIONAL FUNDS	EWFA		\$20,000.00	0.05%	\$80,000.00	\$ 3,246,514.00	12/21/05	N/A	N/A	N/A	N/A	12/22/05	1/9/06	Approved & Implemented
2 S2	ADDITIONAL FUNDS	EWFA		\$60,000.00	0.15%	\$140,000.00	\$ 3,186,514.00		1/9/06	<< Approved Copies					Approved & Implemented
3	FEDERAL APPRENTICESHIP TRAINING	ACUP	0	\$70,000.00	0.22%	\$210,000.00	\$ 3,116,514.00	4/5/05	7/24/06	<< Approved Copies		4/20/05	4/11/05	4/21/05	Approved & Implemented
(S)				\$14,400.00	0.05%	\$224,400.00	\$ 3,102,114.00		4/21/05	<< Approved Copies					Approved & Implemented
4	REMOVE ADDITIONAL TREES & CLEAR / GRUB TO FACILITATE UTILITY RELOCATION	EWFA	0	\$15,000.00		\$239,400.00	\$ 3,087,114.00	7/6/05	4/21/05	<< Approved Copies		5/16/05	4/11/05	4/21/05	Approved & Implemented
4 S1	ADDITIONAL FUNDS	EWFA		\$15,000.00	0.05%	\$254,400.00	\$ 3,072,114.00	5/9/05	7/27/05	<< Approved Copies					Approved & Implemented
5	SWPPP MAINTENANCE	EWFA	0	\$40,000.00	0.13%	\$294,400.00	\$ 3,032,114.00	8/1/05	8/17/05	<< Approved Copies		9/15/06	9/15/05	9/19/05	Approved & Implemented
(S)				\$15,000.00		\$309,400.00	\$ 3,017,114.00	10/14/05	N/A	N/A	N/A	N/A	10/14/05	10/25/05	Approved & Implemented
6	MAINTAIN EXISTING UTILITY FACILITIES	EWFA		\$15,000.00	0.05%	\$324,400.00	\$ 2,932,114.00	10/19/05	10/25/05	<< Approved Copies					Approved & Implemented
6 S1	ADDITIONAL FUNDS	EWFA		\$85,000.00	0.27%	\$394,400.00	\$ 2,902,114.00	10/27/05	10/27/05	<< Approved Copies					Approved & Implemented
7	HIGHLAND-DELMANN WATER MADISON DRIVEWAY	EWFA		\$15,800.00			Revised >>	5/12/06	4/3/06	5/8/06	5/8/06	2/17/06	4/3/06	5/3/06	Approved & Implemented
8	CONFINED SPACE ATTENDANT	EWFA		\$4,200.00	0.06%	\$19,000.00	\$ 2,912,114.00	6/6/05	6/6/05	<< Approved Copies			6/6/05	6/15/05	Approved & Implemented
8 S1	ADDITIONAL FUNDS	EWFA		\$10,000.00	0.03%	\$29,000.00	\$ 2,902,114.00	11/21/05	6/15/05	<< Approved Copies					Approved & Implemented
9	STATE STREET PILE DEPTH REVISION / PRE-DRILLING	ITEM		\$20,000.00	0.06%	\$49,000.00	\$ 2,862,114.00	7/19/05	11/30/05	<< Approved Copies			11/21/05	11/29/05	Approved & Implemented
10	MAN MADE BURIED OBJECTS	EWFA		\$2,905.00	0.20%	\$61,675.00	\$ 2,817,534.00	8/15/05	8/17/05	<< Approved Copies		8/10/05	8/5/05	8/9/05	Approved & Implemented
10 S1	ADDITIONAL FUNDS	EWFA		\$64,580.00	0.05%	\$126,255.00	\$ 2,802,534.00	12/22/05	9/19/05	<< Approved Copies			9/15/05	9/19/05	Approved & Implemented
				\$15,000.00		\$241,255.00	\$ 2,787,534.00		N/A	N/A	N/A	N/A	12/22/05	1/9/06	Approved & Implemented
				\$20,000.00	0.05%	\$261,255.00	\$ 2,767,534.00		1/9/06	<< Approved Copies					Approved & Implemented



## San Bernardino Associated Governments

## SEGMENT 11 EARLY PROJECT

## CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG

(Updated: 09/11/2006)

## CONTRACT No. 05-005

NO.	DESCRIPTION	PAY MTD	TIME EXT.	OCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	RE SIGN	CONTRACTOR TO FROM	CT / FHWA Concurrence TO FROM	SANBAG Approval TO FROM	DATE APPROVED	STATUS/ REMARKS
11	STATE STREET OPEN CHANNEL CABLE RAILING (SSSD)	EWAP		\$7,693.72				12/8/05	12/8/05	12/14/05	12/18/05	1/18/06	Approved & Implemented
12	ELECTRICAL SERVICE CONNECTION FEES	EWFA	0	\$7,693.72	0.02%	\$551,673.72	\$ 2,774,840.28	8/15/06	1/19/06	<< Approved Copies	9/22/05	9/27/05	Approved & Implemented
12 S1	ADDITIONAL FUNDS	EWFA		\$15,000.00	0.05%	\$566,673.72	\$ 2,759,840.28	9/15/05	9/21/05	8/17/05	8/30/05		IN PROCESS
13	TRAFFIC SIGNAL LOOPS @ HIGHLAND/MACY & HIGHLAND/CALIFORNIA	EWFA		\$0.00	0.00%	\$566,673.72	\$ 2,759,840.28	3/23/06	4/11/06	3/27/06	4/6/06	4/19/06	Approved & Implemented
14	REMOVE AND REPLACE MUSCOY WATER LINE NORTH OF HIGHLAND	EWFA EWLS		\$35,000.00	0.11%	\$601,673.72	\$ 2,724,840.28	9/21/05	9/28/05	11/1/05	9/21/05	9/28/05	Approved & Implemented
14 S1	ADDITIONAL MMWD UTILITY WORK ON STATE STREET	EWLS		\$62,779.42	0.23%	\$674,453.14	\$ 2,662,060.86	9/28/05	11/22/05	11/23/05	11/30/05	12/7/05	Approved & Implemented
15	REVISED MBGR STANDARD PLAN	NCNC		\$23,758.92	0.07%	\$698,212.06	\$ 2,628,301.94	1/3/06	4/3/06	1/19/06	1/31/06	4/5/06	Approved & Implemented
16	PEDESTRIAN OPENINGS (CREDIT) - STATE STREET BRIDGE	ADJ		\$0.00	0.00%	\$698,212.06	\$ 2,628,301.94	11/22/05	12/1/05	12/11/05	12/14/05	1/9/06	Approved & Implemented
17	LOCAL STREET NAME SIGNS & NORM JOHNSON WAY CHANGE	EWUP ACUP		\$3,602.00	-0.01%	\$694,610.06	\$ 2,631,903.94	4/5/06	1/9/06	<< Approved Copies	4/26/06	5/3/06	Approved & Implemented
18	MADISON/GARDENA KEYSTONE WALL AND MIXIN DRIVEWAY	EWFA		\$5,595.72	0.05%	\$709,120.78	\$ 2,617,393.22	12/14/05	12/28/05	1/11/06	1/15/06	1/18/06	Approved & Implemented
19	ADJUSTMENT TO VARIOUS ELECTRICAL BID ITEMS	ACTS		\$8,915.00	0.06%	\$722,620.78	\$ 2,603,893.22	8/9/06	8/10/06	<< Approved Copies	8/9/06	8/10/06	To Akin & CT - 8/10/06
20	SOUNDWALL 196			\$14,510.72	0.05%	\$730,121.43	\$ 2,596,392.57		<< Approved Copies				IN PROCESS
21	CAJON OH BENT 2 ALTERNATIVE PILE	ITEM ADJ		\$13,500.00	0.05%	\$749,917.67	\$ 2,576,596.33	3/7/06	3/8/06	3/8/06	4/6/06	4/19/06	Approved & Implemented
22	SIGN STRUCTURE SPEC CHANGE	ITEM EWFA ADJ		\$7,500.65	0.03%	\$757,418.27	\$ 2,558,950.33	3/9/06	4/19/06	<< Approved Copies	4/6/06	4/19/06	To Akin - 7/13/06
23	TCE ISSUES AT 20TH STREET BLOCK WALL	EWFA		\$2,865.00	-0.01%	\$760,283.27	\$ 2,558,950.33	3/29/06	4/11/06	4/3/06	6/21/06	4/20/06	Approved & Implemented
24	MODIFICATIONS TO SSSD @ BASELINE: ADD'L RSP.	EWFA		\$20,160.00	0.06%	\$780,443.27	\$ 2,538,950.33	6/1/06	6/6/06	6/6/06	6/21/06	6/26/06	Approved & Implemented



**San Bernardino Associated Governments**  
**CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG**  
 (Updated: 09/11/2006)

**I-10 Median Mixed-Flow Lane Addition**  
**Contract No. 06-0001**

CCO NO.	DESCRIPTION	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN	CONTRACTOR		CT		SANBAG Approval		DATE APPROVED	STATUS/REMARKS			
									TO	FROM	TO	FROM	TO	FROM					
*CONTINGENCY & SUPPLEMENTAL WORK BUDGET >>>																			
						\$35,000.00											Contract Bid Amount >>		\$41,698,568.70
1	MAINTAIN ROADWAY AND TRAFFIC CONTROL ...	EWFA	0					11/09/05	11/10/05	11/28/05	11/10/05	12/02/05	12/07/05	01/18/06	01/18/06	Approved & Implemented			
2	TRAINING	ACUP	0	\$35,000.00	0.08%	\$35,000.00	\$ 3,584,846.00			<< Approved Copies									
3	MAINTAIN EXISTING ELECTRICAL SYSTEMS	EWFA	0	\$8,800.00				11/09/05	11/10/05	12/29/05	11/10/05	12/02/05	12/07/05	01/18/06	01/18/06	Approved & Implemented			
				\$8,800.00	0.02%	\$43,800.00	\$ 3,576,046.00			<< Approved Copies									
				\$10,000.00				11/09/05	11/10/05	11/28/05	11/10/05	12/02/05	12/07/05	01/18/06	01/18/06	Approved & Implemented			
3S1	ADDITIONAL FUNDS	EWFA	0	\$10,000.00	0.02%	\$53,800.00	\$ 3,566,046.00			<< Approved Copies									
				\$20,000.00				05/18/06	05/23/06			05/15/06	05/18/06	05/23/06	05/23/06	Approved & Implemented			
4	MAINTAIN EXISTING IRRIGATION SYSTEMS	EWFA	0	\$20,000.00	0.05%	\$73,800.00	\$ 3,546,046.00			<< Approved Copies									
				\$30,000.00				11/09/05	11/10/05	11/28/05	11/10/05	12/02/05	12/07/05	01/18/06	01/18/06	Approved & Implemented			
4S1	ADDITIONAL FUNDS	EWFA	0	\$30,000.00	0.07%	\$103,800.00	\$ 3,516,046.00			<< Approved Copies									
				\$30,000.00				05/18/06	05/23/06			05/30/06	05/18/06	05/23/06	05/23/06	Approved & Implemented			
5	GRAFFITI REMOVAL	EWFA	0	\$30,000.00	0.07%	\$133,800.00	\$ 3,486,046.00			<< Approved Copies									
				\$10,000.00				11/09/05	11/10/05	11/28/05	11/10/05	12/02/05	12/07/05	01/18/06	01/18/06	Approved & Implemented			
6	REVISED CL PROFILE	EWFA	0	\$10,000.00	0.02%	\$143,800.00	\$ 3,476,046.00			<< Approved Copies									
				\$10,000.00				02/13/06	02/13/06	02/21/06	02/13/06	02/20/06	03/01/06	04/04/06	04/04/06	Approved & Implemented			
7	ADDITIONAL ABESTOS ABATEMENT (8 BRIDGES)	EWFA	0	\$10,000.00	0.02%	\$153,800.00	\$ 3,466,046.00			<< Approved Copies									
				\$12,000.00				11/21/05	11/21/05	11/28/05	11/21/05	12/01/05	02/16/06	03/01/06	03/01/06	Approved & Implemented			
8	ENCROACHMENT PERMIT FEE	EWLS	0	\$12,000.00	0.03%	\$165,800.00	\$ 3,454,046.00			<< Approved Copies									
				\$5,350.00				11/30/05	12/02/05	12/08/05	12/02/05	04/04/06	02/16/06	03/01/06	03/01/06	Approved & Implemented			
9	LOW EXPANSION MATERIALS	ACLS	0	\$5,350.00	0.01%	\$171,150.00	\$ 3,448,696.00			<< Approved Copies									
				\$85,093.00				01/06/06	01/10/06	01/19/06	01/10/06		02/16/06	03/01/06	03/01/06	Approved & Implemented			
				\$85,093.00	-0.20%	\$86,057.00	\$ 3,533,789.00			<< Approved Copies									
10	SALVAGE BRIDGE RAILING (2000 LF)	ACLS	0													PENDING cost proposal by ATKIN			
				\$0.00	0.00%	\$86,057.00	\$ 3,533,789.00			<< Approved Copies									
11	SALVAGE MBGR (including THRIE BEAM)	ACLS	0													PENDING final cost negotiation			
				\$0.00	0.00%	\$86,057.00	\$ 3,533,789.00			<< Approved Copies									
12	SWPPP MAINTENANCE SHARING	EWFA	0	\$33,300.00				01/10/06	01/10/06	01/19/06	01/10/06	04/04/06	02/16/06	03/01/06	03/01/06	Approved & Implemented			
				\$33,300.00	0.08%	\$119,357.00	\$ 3,500,489.00			<< Approved Copies									
				\$20,000.01															
13	ELECTRICAL CHANGES BY CAL TRANS	ACLS														PENDING cost proposal by ATKIN & final cost negotiation			
				\$20,000.01	0.05%	\$139,357.01	\$ 3,480,488.99			<< Approved Copies									
14	ADDITIONAL CONCRETE REMOVAL - DSC	EWLS	0	\$7,630.00				06/23/06	06/23/06	07/06/06	06/23/06	07/18/06	07/07/06	07/14/06	07/14/06	Approved & Implemented			
				\$7,630.00	0.02%	\$146,987.01	\$ 3,472,858.99			<< Approved Copies									



**San Bernardino Associated Governments**  
**I-10 Median Mixed-Flow Lane Addition CONTRACT CHANGE ORDER and CONTINGENCY BALANCE LOG**

(Updated: 09/11/2006)

Contract No. 06-001

CCO NO.	DESCRIPTION	PAY MTD	TIME EXT.	CCO AMOUNT	%	TO DATE AMOUNT	CONTINGENCY BALANCE	R.E. SIGN.	CONTRACTOR		CT		SANBAG Approval		DATE APPROVED	STATUS/REMARKS
									TO	FROM	TO	FROM	TO	FROM		
15	ELECTRICAL & WATER METER SERVICE INSTALLATION & PERMIT FEES	ACLS	0	\$20,336.00				04/19/06	04/16/06	04/21/06	04/16/06		05/02/06	05/04/06	05/04/06	Approved & Implemented
		BWLS		\$10,289.00												
				\$30,625.00	0.07%	\$177,612.01	\$ 3,442,233.99									
16	PIER WALL - TEMPORARY BRACING	ACLS	0	\$5,316.00				04/14/06	04/14/06	04/18/06	04/14/06		05/02/06	05/04/06	05/04/06	Approved & Implemented
				\$5,316.00	0.01%	\$182,928.01	\$ 3,436,917.99									
17	CITRUS ABUT FOOTING	ACLS	0	\$9,682.00				05/11/06	05/11/06	05/18/06	05/11/06	04/20/06	05/19/06	05/23/06	05/23/06	Approved & Implemented
				\$9,682.00	0.02%	\$192,810.01	\$ 3,427,035.99									
18	ANDERSON DRILLING - DIFFERING SITE CONDITIONS (Closed at NO COST)	ACLS	0	\$0.00												CLOSED at NO COST
				\$0.00	0.00%	\$192,810.01	\$ 3,427,035.99									
19	CHURCH ST UC - FALSEWORK CHANGES	ACLS	0	\$4,000.00				04/14/06	04/14/06	04/18/06	04/14/06	04/20/06	05/02/06	05/04/06	05/04/06	Approved & Implemented
				\$4,000.00	0.01%	\$196,810.01	\$ 3,423,035.99									
20	"REVISED" STAGE 3 - TRAFFIC HANDLING PLANS	No Cost	0													PENDING "Revised" drawings by Designer
				\$0.00	0.00%	\$196,810.01	\$ 3,423,035.99									
21	TEMPORARY SUPPORTS DELETION (NO COST Change)	ACLS	0	-\$25,001.00												PENDING approval of CCO #20 - Revise Stage 3 THP
				-\$25,001.00	-0.06%	\$171,809.01	\$ 3,448,036.99									
22	SUPPLEMENTAL LANDSCAPE MAINTENANCE (PE)	EWUP	0	\$68,880.00				06/29/06	07/31/06	08/03/06	08/04/06		08/04/06			Pending final approval by SANBAG
				\$68,880.00	0.17%	\$240,689.01	\$ 3,379,156.99									
23	MISCELLANEOUS STRUCTURAL FIELD CHANGES	EWFA	0	\$10,000.00				08/10/06	08/10/06	08/21/06	08/10/06		08/22/06			
				\$10,000.00	0.02%	\$250,689.01	\$ 3,369,156.99									
24	CHANGE TO #19 REBAR COUPLER FROM #16 REBARS AT CLOSURE POURS	ACLS	0	\$5,001.00												
				\$5,001.00	0.01%	\$255,690.01	\$ 3,364,155.99									
25	MISC. APPROACH SLAB & PCG PAVING FIELD CHANGES	EWFA	0	\$5,001.00												
				\$5,001.00	0.01%	\$260,691.01	\$ 3,359,154.99									
26			0	\$0.00												
				\$0.00	0.00%	\$260,691.01	\$ 3,359,154.99									
27			0	\$0.00												
				\$0.00	0.00%	\$260,691.01	\$ 3,359,154.99									
28			0	\$0.00												
				\$0.00	0.00%	\$260,691.01	\$ 3,359,154.99									
29			0	\$0.00												
				\$0.00	0.00%	\$260,691.01	\$ 3,359,154.99									

**NOTES:** \* Includes Supplemental Funds & SANBAC Furnished Materials

## CHANGE ORDER and CONTINGENCY BALANCE LOG

CCO NO.	DESCRIPTION	PAY METHOD	TIME EXT.	CCO AMOUNT	TO DATE AMOUNT	CONGINGENCY BALANCE	RE SIGN.	CONTRACTOR		SANBAG (Appr.)		SANBAG (Trans.)		DATE APPR.	STATUS/REMARKS
								TO	FROM	TO	FROM	TO	FROM		
*CONGINGENCY BUDGET \$ 408,423.00															
1	ELECTRICAL ITEM CHANGES	APLS	0	\$ 4,034.52	\$ 4,034.52	\$ 404,388.48	4/17/2006	4/18/2006	4/18/2006	4/18/2006	4/19/2006	4/20/2006	4/20/2006		CCO APPROVED
2	Approved Copies to: IRRIGATION CROSSOVERS AT CAMPUS AVENUE	EWFA	0	\$ 25,000.00	\$ 29,034.52	\$ 379,388.48	6/6/2006	4/20/2006	7/17/2006	7/12/2006	7/17/2006	7/12/2006	7/12/2006		CCO APPROVED
3	Approved Copies to: CONTROLLER CABINETS & BACKFLOW ASSEMBLY MODIFICATIONS	NCNC	0	\$ -	\$ 29,034.52	\$ 379,388.48	7/18/2006	7/18/2006							CCO IN PROCESS
4	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
5	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
6	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
7	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
8	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
9	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
10	Approved Copies to:			\$ -	\$ 29,034.52	\$ 379,388.48									
ITEM OVERRUN** \$ 29,034.52															

NOTES:

\* Includes Supplemental Funds & SANBAG Furnished Materials

ITEM No.	\$ Overrun	\$ Balance
		\$ -
		\$ -
		\$ -
		\$ -

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- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

### *Minute Action*

AGENDA ITEM: 6

**Date:** September 21, 2006

**Subject:** Contract No. 07-004 with Westbound Communications to provide Public Information and Safety Services for the widening of the 5<sup>th</sup> Street Over-Crossing at Interstate 215 in San Bernardino

**Recommendation:**\* Approve Contract No. 07-004 with Westbound Communications to provide Public Information and Safety Services for the widening of the 5<sup>th</sup> Street Over-Crossing at Interstate 215 in San Bernardino in the amount not to exceed \$550,000 as specified in the Financial Impact Section.

**Background:** This is a new professional services contract. In June, the Board of Directors authorized the circulation of a Request for Qualifications (RFQ) for qualified firms to provide public information services for the widening of the 5<sup>th</sup> Street over-crossing at Interstate 215 in San Bernardino. The scope of work is to provide assistance as needed with the development of key messages; communicating with residents, commuters and other project stake-holders; maintaining a project database; assisting with public meetings and ceremonies; drafting media materials; preparing and issuing construction alerts and traffic advisories; assisting with project updates; and other activities as requested.

Construction on the 5<sup>th</sup> Street over-crossing is set to start in early 2007. SANBAG will be the lead agency for this work. This is an early project within the overall Interstate 215 widening project, which will extend six to seven years. The 5<sup>th</sup> Street over-crossing will take about 30 months and will involve building a new bridge and removing the existing bridge in stages. The work will require building new bridge approaches between H Street and J Street and regarding and elevating existing streets and intersections. Street closures at night and on weekends,

\*

*Approved*  
*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor: Opposed: Abstained:*

*Witnessed: \_\_\_\_\_*

freeway lane closures, ramp closures and other impacts to traffic will be required throughout the project. The northbound 4<sup>th</sup> Street onramp will be closed for approximately six months.

Three firms responded to the RFQ: Arellano Associates, O'Reilly Public Relations and Westbound Communications. In accordance with SANBAG Consultant Selection Policy (Policy No. 11000), the selection team consisted of representatives from SANBAG staff, a representative from Caltrans, a representative from the County of San Bernardino and a representative from the City of San Bernardino. Based on the evaluation of the Statements of Qualifications, all three firms were invited for interviews. The selection committee unanimously selected Westbound Communications as the most qualified firm for this project.

Westbound Communications was selected, in part, because of the firm's familiarity with the San Bernardino area and their experience with construction outreach. The firm conducted thorough research of the project needs, developed a creative and comprehensive set of public information and safety strategies, and is prepared to provide assistance in multiple languages. In addition, its project manager is a local resident and has extensive knowledge of the community.

In addition, staff from Westbound Communications indicated a willingness to provide assistance, as needed, to Caltrans Public Affairs for some outreach services related to the widening of Interstate 215 between Interstate 10 and Rialto Avenue (Segment 3). Caltrans will be the lead for this portion of the widening project and may benefit from Westbound's assistance.

At a future date, SANBAG staff may ask the Board of Directors to consider extending the 5<sup>th</sup> Street over-crossing public information and safety services contract to cover additional mainline work on Interstate 215 for which SANBAG will be the lead agency (Segments 1, 2 and 5). This would be brought to the Major Projects Committee and the Board of Directors in a separate agenda item.

***Financial Impact:*** The total contract amount is not to exceed \$550,000 for labor and materials, with an estimated \$500,000 for labor and \$50,000 for materials. The materials budget will cover the cost of printing, special events and research toward non-traditional outreach methods, such as live traffic cameras. The financial impact of this item for FY 06/07 is estimated at \$230,000, which is consistent with the FY 06/07 budget. This will leave \$320,000 in unfunded obligations to carry forward into the next two fiscal years. The funding source is the Measure I Valley Major Projects Fund. TN 83807000, Cost Code 6010.

Major Projects Agenda Item  
September 21, 2006  
Page 3

*Reviewed By:* This item is scheduled for review by the Major Projects Committee on September 21, 2006. The contract has been reviewed and approved by Legal Counsel. The contract includes the Scope of Work (Attachment A).

*Responsible Staff:* Cheryl Donahue, Public Information Officer

**SANBAG Contract No. 07-004**

by and between

San Bernardino County Transportation Authority

and

Westbound Communications

for

Public Information & Safety Services, Interstate 215 5<sup>th</sup> Street Over-Crossing, San Bernardino

**FOR ACCOUNTING PURPOSES ONLY**

<input checked="" type="checkbox"/> Payable	Vendor Contract # <u>07-004</u>	Retention:	<input checked="" type="checkbox"/> Original
<input type="checkbox"/> Receivable	Vendor ID _____	<input type="checkbox"/> Yes _____ % <input type="checkbox"/> No	<input type="checkbox"/> Amendment

Notes:

Original Contract:      \$ <u>550,000</u>	Previous Amendments Total:      \$ _____
	Previous Amendments Contingency Total:      \$ _____
Contingency Amount:      \$ _____	Current Amendment:      \$ _____
	Current Amendment Contingency:      \$ _____

Contingency Amount requires specific authorization by Task Manager prior to release.

**Contract TOTAL → \$ 550,000**

↓ Please include funding allocation for the original contract or the amendment.

Task	Cost Code	Funding Sources	Grant ID	Amounts
<u>838C7004</u>	<u>6010</u>	<u>MIVMPF</u>	_____	\$ <u>230,000</u>
_____	_____	_____	_____	\$ _____
_____	_____	_____	_____	\$ _____
_____	_____	_____	_____	\$ _____

Original Board Approved Contract Date: <u>10/4/06</u>	Contract Start: <u>10/4/06</u>	Contract End: <u>4/4/09</u>
New Amend. Approval (Board) Date: _____	Amend. Start: _____	Amend. End: _____

**If this is a multi-year contract/amendment, please allocate budget authority among approved budget authority and future fiscal year(s)-unbudgeted obligations:**

Approved Budget Authority →	Fiscal Year: <u>2006/07</u> \$ <u>230,000</u>	Future Fiscal Year(s) – Unbudgeted Obligation →	\$ <u>320,000</u>
-----------------------------	--	--	-------------------

Is this consistent with the adopted budget? ☒ Yes ☐ No

If yes, which Task includes budget authority? 83807000

If no, has the budget amendment been submitted? ☐ Yes ☐ No

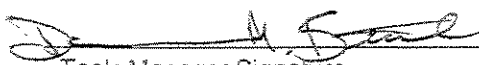
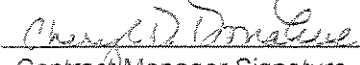

**CONTRACT MANAGEMENT**

**Please mark an "X" next to all that apply:**

☐ Intergovernmental    ☒ Private    ☐ Non-Local    ☐ Local    ☐ Partly Local

Disadvantaged Business Enterprise: ☒ No    ☐ Yes \_\_\_\_\_ %

Task Manager: <u>Darren Kettle</u>	Contract Manager: <u>Cheryl Donahue</u>
------------------------------------	---

	9-13-06		9-14-06
Task Manager Signature	Date	Contract Manager Signature	Date
	2/13/06		
Chief Financial Officer Signature	Date		

Filename: a07004css.doc

Form 23 06/06



## *EXHIBIT A*

### **PUBLIC INFORMATION AND SAFETY SERVICES, INTERSTATE 215 5<sup>TH</sup> STREET OVERCROSSING PROJECT AND OTHER POTENTIAL SEGMENTS OF INTERSTATE 215**

#### **SCOPE OF SERVICES**

The San Bernardino County Transportation Authority is conducting a Request for Qualifications for the development of public information support services for construction activity on Interstate 215 in San Bernardino. This contract will include the 5<sup>th</sup> Street overcrossing and related improvements. Public information and safety service for the remaining Interstate 215 mainline construction contracts is a potential "add-on" for this contract and constitutes *Alternate A*. Support services for this program may include, but not be limited to, the following:

- (a) Developing key messages for the project and assisting with public relations strategies
- (b) Maintaining a project database of interested parties
- (c) Drafting collateral materials, including brochures, maps and safety pamphlets
- (d) Assisting with community Open Houses to relay information and allow visitors to ask questions about construction activity
- (e) Organizing ground-breaking ceremonies to mark the start of various project phases and ribbon-cutting ceremonies to mark completion
- (f) Drafting of media materials, including press kits and tours
- (g) Preparing and issuing construction alerts, traffic advisories and other notices
- (h) Assisting with email bulletins/newsletters to summarize the project's progress and upcoming events
- (i) Analyzing impacts to businesses and schools and developing support programs as needed
- (j) Speaking engagements to community groups
- (k) Taking project photographs and assisting with website updates
- (l) Managing a message helpline and researching project inquiries
- (m) Drafting newspaper advertisements
- (n) Providing support for non-English speakers
- (o) Assisting with crisis communication as needed

The consultant shall provide a brief project plan to outline the firm's concepts and ideas for a public information program. The plan shall include project goals, issues to be addressed, potential audiences, and strategies and tasks for achieving the project's goals. For each program activity or group of activity tasks, the consultant shall provide a tabulation noting resources required, time required to initiate the task, estimated hours required to implement the task and its relative priority to the overall program.

The Authority is open to all ideas and concepts, provided the proposed activities are informative, useful to the public, meet community needs and are cost effective. The final Scope of Services for this contract will be developed from the proposed project plan in cooperation with the selected consultant.

- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

*Minute Action*

AGENDA ITEM: 7

**Date:** September 21, 2006

**Subject:** Amendment to Major Projects Contract Negotiation Guidelines Policy – SANBAG Policy 34504

**Recommendation:**\* Approve amended SANBAG Policy 34504 – Major Project Contract Negotiation Guidelines Policy (Attachment “A”)

**Background:** At the July 2006 Major Projects Committee staff brought before the committee an item to discuss current SANBAG Policy 34504 – Major Project Contract Negotiation Policy, and specifically the issue of the hourly rate cap in the current policy. The nature of the item brought before the committee was to stimulate discussion on an issue that will absolutely affect the SANBAG Major Projects Program for the foreseeable future. The July agenda item, which general frames the discussion at the Major Projects Committee, is attached (Attachment “B”). Staff did not request a formal action but did take away from the committee discussion that a modification to the policy was appropriate.

Based on the committee discussion staff recommends amending SANBAG Policy 34504 to eliminate the hourly salary rate cap (currently set at \$60/hour) that is included in the current policy. All other caps included in the Contract Negotiation Guidelines would remain.

**Financial Impact:** This action imposes no direct financial impact on the SANBAG budget. TN 81507000.

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006.

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

*Approved*  
*Major Projects Committee*

*Date: September 21, 2006*

*Moved:*

*Second:*

*In Favor:*

*Opposed:*

*Abstained:*

*Witnessed:* \_\_\_\_\_

## ATTACHMENT "A"

San Bernardino Associated Governments	Policy No.	34504
Adopted by the Board of Directors June 7, 1995	Revised	9/21/06 5/2/01
<b>Major Projects Program, Contract Negotiation Guidelines</b>	Revision No.	<b>2</b> <b>4</b>

### Table of Contents

Maximum Overhead Rates | Other Maximum Charges | Revision History |

## I. MAXIMUM OVERHEAD RATES

Major Consulting Firms	150%
Geotechnical Firms	170%
Small Engineering Firms	155%
Small Engineering Firms With Surveying Emphasis	160%

## II. OTHER MAXIMUM CHARGES

<b>Maximum Direct Salary Rate</b>	<b>\$60.00</b>
Maximum CADD Computer Rate	\$15.00 per hour
Maximum General Computer Rate	\$10.00 per hour

The rates represent maximums, and are intended to constitute policy guidance for staff in the negotiation of contracts. These policy maximums may be exceeded if specially justified. On the other hand, lower rates may also be negotiated, and prime contractors may demand lower overhead rates for their subcontractor.

## III. REVISION HISTORY

Revision No.	Revisions	Adopted
0	Adopted.	
1	Para. 34502.2: Maximum Direct Salary Rate changed to \$60.00 per hour from \$47.00 per hour.	06/07/95 05/02/01
2	<b>Par. III: Deleted Maximum Direct Salary Rate</b> Changed Par. 34504.1 to I, Par. 34504.2 to II, and Par. 34504.3 to III to conform to current paragraph formatting standards.	



# San Bernardino Associated Governments

1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715

Phone: (909) 884-8276

Fax: (909) 885-4407

Web: www.sanbag.ca.gov



- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
 ■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

## Minute Action

AGENDA ITEM: 9

**Date:** July 13, 2006

**Subject:** Major Projects Contract Negotiation Guidelines policy

**Recommendation:\*** Discuss and provide guidance on revision to Major Project Contract Negotiation Guidelines

**Background:** Over the past several years, design and construction professionals have experienced steady growth in their respective fields. Firms within the engineering and construction management related fields have reached a point where attracting and retaining engineering talent has become extremely difficult and in some cases is limiting their ability to expand. The high demand for engineering talent is a result of numerous factors but an active private development market and stable public funding supply (at least relative to 2002) have been the primary recent contributors. The increased demand has also led to an overall increase in the salaries of engineers of nearly all categories with which SANBAG contracts.

Given these increases, staff believes that a review and update of SANBAG's negotiating guidelines is warranted. SANBAG policy 34504, titled Major Projects Contracts Negotiation Guidelines, provides guidance for staff in negotiating overhead rates and direct salaries for consultant contracts. The policy was originally approved by the Board in 1995 and was updated in 2001.

### Attendees:

John Pomierski, Chair, Upland  
 Grace Vargas, Vice Chair, Rialto  
 Paul Biane, S.B. County, 2<sup>nd</sup> District  
 Josie Gonzales, S. B. County, 5<sup>th</sup> District  
 Dennis Yates, Chino  
 Deirdre Bennett, Colton  
 Mark Nuaimi, Fontana  
 Bea Cortes, Grand Terrace  
 Larry McCallon, Highland  
 Robert Christman, Loma Linda  
 Paul Eaton, Montclair  
 Alan Wapner, Ontario  
 Diane Williams, Rancho Cucamonga  
 Pat Gilbreath, Redlands  
 Pat Morris, San Bernardino  
 Richard Riddell, Yucaipa

Biane, Gonzales and Nuaimi arrived to the meeting during this item.

It was the consensus of the committee to eliminate the current policy and bring new policy ideas to the committee at the next meeting..

*Approved*  
*Major Projects Committee*

*Date: July 13, 2006*

*Moved:* *Second:*

*In Favor:* *Opposed:* *Abstained:*  
*Information only.*

*Witnessed:* \_\_\_\_\_

The 2001 update adjusted the maximum salary rate from \$47 per hour to \$60 per hour.

The policy was created to provide a ceiling to consultant overhead rates and salary levels for SANBAG contracts. Overhead rates were capped at 150 percent for large firms but varied up to 170 percent depending on whether a firm was small or maintained specialty equipment for their business. In reviewing past staff reports, it appears that there was extensive discussion as to the exact levels of the overhead rates. When the policy was initiated SANBAG was embarking on a large number of consultant contracts and staff believed that limits on rates (both overhead and salary) would help reduce costs while still maintaining adequate competition for SANBAG contracts. On the salary side, there was also an attempt to limit executive level personnel from charging to contracts on an hourly level and instead let those costs be captured only by a firm's overhead costs. Exceptions might be made for high level personnel providing specific project level input in which cases the firm would be reimbursed for such costs, but generally those costs would not be reimbursable.

Staff feels that at least the salary portion of the policy should be revised to reflect the current salary market. The spirit of the salary cap was to prevent executive level members of firms from being reimbursed within our contracts as well as trying to reduce costs. With today's market, some project engineers and senior level engineers earn more than the salary cap. This creates a burden for consultants which could begin to affect competition and, regardless of competition, is outdated.

The hourly rate cap needs to be addressed and there are a variety of options. One alternative is to eliminate the salary cap entirely and instead not allow executive level personnel to be reimbursed for their time. This would simplify the salary issue since the intent is to prevent high level personnel from charging time for administrative functions. There are instances where executives provide project specific help and those could charges might be allowable. Another idea that was mentioned at a previous Majors meeting involved an annual salary cap increase based upon an economic index. One potential downside to indexing the cap is the potential lack of correlation between a particular index and the engineering industry. Still another option is to simply adjust the salary cap manually as deemed appropriate by the Board.

Staff is exploring options and will bring a recommendation to the Committee, but this report is to provide an update and elicit ideas and discussion.

*Financial Impact:* This action imposes no direct financial impact on the SANBAG budget. TN 81507000.

*Reviewed By:* This item will be reviewed by the Major Projects Committee on July13, 2006.

*Responsible Staff:* Darren Kettle, Director of Freeway Construction

- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

## *Minute Action*

AGENDA ITEM: 8

**Date:** September 21, 2006

**Subject:** Approve plans and specifications and Authorize advertising for Construction Bids for I-215 5<sup>th</sup> Street Overcrossing, Interstate 10/Live Oak Canyon Interchange and State Street/University Parkway Grade Separation.

**Recommendation:**\* Approve plans and specifications and Authorize advertising Construction Bids for I-215 5<sup>th</sup> Street Overcrossing, Interstate 10/Live Oak Canyon Interchange and State Street/University Parkway Grade Separation.

**Background:** SANBAG has completed the Plans and Specifications for the three projects cited above and is in the process of finalizing the construction management services consultant teams for each of the projects. Each of these projects has received substantial funding from the Traffic Congestion Relief Program and has either already received an allocation or an allocation is pending before the California Transportation Commission (CTC). A condition of the allocations made by the CTC is that a construction contract must be awarded within six months of the CTC allocation. The next step in proceeding with these projects is complying with Public Contracts Code by receiving Board approval of the Plans and Specifications and authorizing advertisement for bids for these projects.

**Financial Impact:** This item imposes no financial impact. The 2006/07 SANBAG Budget does include construction funds for the three projects. I-215/5<sup>th</sup> Street Overcrossing (TN83807), I-10/Live Oak (TN84307), State St/Univ. Pkwy (TN87107)

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006.

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

\*

*Approved*  
*Major Projects Committee*

*Date: September 21, 2006*

*Moved: Second:*

*In Favor: Opposed: Abstained:*

*Witnessed: \_\_\_\_\_*

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- San Bernardino County Transportation Commission ■ San Bernardino County Transportation Authority  
■ San Bernardino County Congestion Management Agency ■ Service Authority for Freeway Emergencies

## *Minute Action*

AGENDA ITEM: 9

**Date:** September 21, 2006

**Subject:** Request for Qualifications (RFQ) No. C07088 for Ramona Avenue and Hunts Lane Grade Separation Construction Services

**Recommendation:\*** Authorize staff to release Request for Qualifications (RFQ) No. C07088 for Ramona Avenue and Hunts Lane Grade Separation Construction Services

**Background:** This action will lead to the award of a new consultant contract for construction related services. As part of the Traffic Congestion Relief Program (TCRP) established by Assembly Bill 2928 of 2000, SANBAG was the designated recipient of \$95 million for Alameda Corridor East railroad grade separation projects. The Safe Accountable Flexible Efficient Transportation Equity Act – A Legacy to Users (SAFETEA-LU) included additional funds for Alameda Corridor East railroad grade separation projects. The Ramona Avenue and Hunts Lane railroad grade separation projects are two of the projects that have received funding from these sources. SANBAG is the lead agency for the Hunts Lane project and the Board recently approved in a concept a request from the City of Montclair for SANBAG to assume lead agency for construction of the Ramona Avenue Project. A cooperative agreement formalizing this arrangement is currently being drafted.

The SANBAG Board has made the necessary findings that the Hunts Lane project is statutorily exempt from California Environmental Quality Act. The Ramona Avenue project has received final environmental approvals

*Approved*

*Major Projects Committee*

*Date:* September 21, 2006

*Moved: Second:*

*In Favor:      Opposed:      Abstained:*

*Witnessed:* \_\_\_\_\_

required by the National Environmental Policy Act (NEPA) and the Hunts Lane project is proceeding with final environmental studies to comply with NEPA.

As SANBAG proceeds to the construction phase of these projects it is first necessary to secure the services of a full service construction management team to include, construction management, materials testing, and construction staking and surveying.

Staff has attached a draft RFQ for a full service construction management team. The attached RFQ is SANBAG's "boiler plate" RFQ with language similar to that used in previous SANBAG issued RFQs. Since this contract may ultimately be funded using both TCRP and federal funds SANBAG must comply with federal procurement requirements including incorporating a Disadvantaged Business Enterprise (DBE) component rather than SANBAG's standard local preference policy.

**Financial Impact:** This action, by itself, imposes no financial impact. The future award of a consultant services contract has been anticipated in the FY 2006/07 budget. Staff will budget future year costs as necessary in future year budgets. The funding source for construction management activities is both Prop. 42/TCRP funds and federal funds. TN 87107000 (Ramona Avenue) TN 87007000 (Hunts Lane)

**Reviewed By:** This item will be reviewed by the Major Projects Committee on September 21, 2006.

**Responsible Staff:** Darren Kettle, Director of Freeway Construction

- 
- San Bernardino County Transportation Commission •San Bernardino County Transportation Authority
  - San Bernardino County Congestion Management Agency •Service Authority for Freeway Emergencies
- 

**DATE:** October 9, 2006

***DRAFT***

**TO:** Consultants/Construction Management/Materials Testing/Construction Surveying Firms

**FROM:** Darren Kettle, Director of Freeway Construction

**SUBJECT:** Construction Support Services, Ramona Avenue Grade Separation and Hunts Lane Grade Separation Projects

Attached with this cover memorandum is our Request for Qualifications (RFQ) for Construction Support Services. The purpose of this RFQ is to select a firm to assist the San Bernardino Associated Governments (SANBAG) with construction of the Ramona Avenue Grade Separation and the Hunts Lane Grade Separation projects.

Those firms or individuals intending to submit Statement of Qualifications (SOQ) should note the schedule contained in Section XI of the attached document. It is our intention, subject to Board approval, to have the selected firm under contract by May 11, 2007.

Firms will have access to preliminary contract documents from October 11, 2006 through November 16, 2006 by appointment only. Please contact Ms. Christine Coleman at (909) 889-8611 x154 or Ms. Deanne Oberdank at (909) 889-8611 x136, to schedule a review.

Individuals and firms submitting SOQs for this project will be evaluated based on qualifications and experience on similar and relevant projects. Emphasis will be placed on the capabilities of key project individuals.

Also attached for your reference are the *draft* Scope of Services, a sample contract, and SANBAG's Consultant Selection Policy. These items may also be found on SANBAG's internet website: [www.sanbag.ca.gov](http://www.sanbag.ca.gov) under "Latest RFP/RFQ Postings." Please check the website for schedule updates.

Eight (8) copies of the SOQ must be submitted to SANBAG's San Bernardino office by 12:00 P.M., Friday, November 17, 2006.

Statement of Qualifications and correspondence shall be directed to:

Mr. Darren Kettle  
Director of Freeway Construction  
San Bernardino Associated Governments  
1170 W. 3<sup>rd</sup> Street, 2<sup>nd</sup> Floor  
San Bernardino, California 92410-1715

Consultants/ Construction Management/Materials Testing/Construction Surveying Firms  
October 9, 2006  
Page 2

All questions and comments regarding this Request for Qualifications or the project shall be directed to:

Ms. Lisa DaSilva  
Project Manager  
(909) 889-8611 x 147

DK: LD  
Attachment

cc: Greg Hefter  
Lisa DaSilva  
File

# ***DRAFT***

SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY /  
SAN BERNARDINO ASSOCIATED GOVERNMENTS  
(SANBAG)

## **REQUEST FOR QUALIFICATIONS**

FOR

**CONSTRUCTION MANAGEMENT SERVICES,  
MATERIALS TESTING, AND  
CONSTRUCTION SURVEYING**

FOR

**RAMONA AVENUE GRADE SEPARATION  
AND  
HUNTS LANE GRADE SEPARATION**

IN

**CITIES OF MONTCLAIR, SAN BERNARDINO, AND COLTON**

Contract C07-088

Issued: October 9, 2006

**SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY/  
SAN BERNARDINO ASSOCIATED GOVERNMENTS**

**REQUEST FOR QUALIFICATIONS**

**FOR**

**CONSTRUCTION MANAGEMENT SERVICES, MATERIALS TESTING, AND  
CONSTRUCTION SURVEYING  
RAMONA AVENUE GRADE SEPARATION AND HUNTS LANE GRADE SEPARATION**

**I. INTRODUCTION**

The San Bernardino Associated Governments (SANBAG), acting as the San Bernardino County Transportation Authority, is soliciting Statement of Qualifications (SOQ) from all qualified firms for Construction Management (CM) services, Materials Testing, and Construction Surveying for the Ramona Avenue Grade Separation Project in the City of Montclair and the Hunts Lane Grade Separation Project in the Cities of San Bernardino and Colton.

The purpose of this RFQ is to select a consultant able to assist SANBAG with construction support services, including construction management, materials testing, and construction surveying for the Ramona Avenue Grade Separation project and the Hunts Lane Grade Separation project.

Voters in San Bernardino County approved Measure I in November 1989, enacting a one-half cent sales tax for transportation purposes over a 20-year period. SANBAG, which has existed as the County Transportation Commission since 1975, is designated as the Agency to administer the program.

The contract will be awarded without discrimination based on race, religion, color, age, sex, or national origin.

After a consultant is selected, a pre-award audit of that consultant's, and the corresponding subconsultants, operations will be required prior to project approval. The pre-award audit will adhere to the Caltrans Local Assistance Procedures Manual. The pre-award audit requirements are explained in Local Programs Procedures 00-05 (LPP 00-05).

**II. PROJECT AND SERVICES DESCRIPTIONS**

The San Bernardino Associated Governments (SANBAG) will utilize consultant services to support construction activities for the Ramona Avenue Grade Separation Project and the Hunts Lane Grade Separation Project.

A general description of the project follows.

## RAMONA AVENUE PROJECT DESCRIPTION

The Ramona Ave. grade separation project proposes to construction of a three span roadway bridge over the Union Pacific Railroad (UPRR) tracks replacing the existing at-grade crossing. The project has two major phases; street and drainage improvements, and bridge construction. The street improvements include reconstruction of the Dale St/Ramona Ave intersection, Camulos Ave/State St intersection, Kimberly Ave/Brooks St intersection, paving, utility relocation, and detour construction. Ramona Ave will be closed during the bridge construction and traffic will be detoured to Mission Blvd, Monte Vista, and Holt Blvd. The proposed bridge is approximately 267 feet long, three span, concrete box girder structure. The bridge will span two existing and two future UPRR tracks.

This project will provide for a new connection road between Ramona Avenue and State Street, resulting in a minor realignment of State Street to accommodate bridge construction and preserving vehicular access to adjacent properties affected by the proposed grade crossing.

The project is located on Ramona Ave. between Mission Blvd. and Holt Blvd. in the City of Montclair. The construction will be completed in approximately 24 months. The Ramona Grade Separation construction will be completed prior to constructing the Hunts Lane Grade Separation.

## HUNTS LANE PROJECT DESCRIPTION

The proposed project involves construction of an overhead on Hunts Lane at the UPRR. The overhead will be constructed on essentially the same alignment as existing Hunts Lane and would have four vehicle travel lanes (two lanes in each direction), a sidewalk, and a Class 2 (on road striped) bicycle lane on each side. The overhead is proposed as a single-span structure, and the approaches are proposed as retained fill.

UPRR is proposing three new spur tracks west of Hunts Lane. The proposed overhead will span the existing tracks and will not impact railroad operations, including the proposed additional spur tracks.

The intersection of Club Center Drive and Hunts Lane will be eliminated; Club Center Drive will be constructed as a cul-de-sac at Hunts Lane. Oliver Holmes Road, Commercial Road, and Riverwood will remain connected to Hunts Lane and will be raised to match the grade of the newly elevated Hunts Lane. The proposed roadway profile will maintain these intersections and will provide for the existing driveways at several key locations. The profile slightly reduces the design speed of the roadway in order to maintain vertical stopping sight distance.

Drainage improvements include modifications to the street storm drain system near the Commercial Road intersection to combine existing storm drains into one drainage line. Currently, there are separate storm drains from each city running to the channel. The concrete-lined channel would be spanned with a concrete slab to allow emergency vehicles access through the fill from one city to the other. The slab will not impact the channel but will span across it.

Utilities located within Hunts Lane, including the high-voltage power transmission lines, will require relocation; however, some will remain under fill used to elevate the roadway. An alternate electrical utility feed will be installed along Steel Road under the I-215 freeway in order

to maintain electricity during construction. Utilities in the existing southwest parkway will remain in place.

Hunts Lane will be closed during construction and traffic will be detoured along Washington Street, Waterman Avenue, and Redlands Boulevard. Construction of the project will take approximately 16 months.

### **SERVICES**

SANBAG is soliciting firms for CM services and materials testing and construction surveying for the Ramona Avenue and Hunts Lane Grade Separation projects. Services are anticipated to generally include, but are not limited to, pre-construction plan, specification, and estimate (PS&E) reviews; participation in and the evaluation of scheduling of the proposed projects; construction project advertising, bid analysis, and award; construction inspection; contractor interface and contract administration; office engineering; and other assorted duties as appropriate for construction management, as well as materials testing and construction surveying. The detailed scope of services is included as draft Attachment A to the draft contract.

It is recommended that, in addition to a Project Manager, a single point of contact or Senior Resident Engineer be assigned to direct and coordinate all field activities under this contract for each project. Other Resident Engineers or Assistants may be assigned to specific responsibilities as needed. Insofar as the Consultant's approach described in the SOQ, the scope of responsibility and the total number of personnel assigned to each project is left to the discretion of the Consultant. Each Statement of Qualifications shall include a preliminary staffing plan *and* an organization chart.

The Consultant shall provide evidence of the firm's ability to adequately and appropriately staff and manage both the Ramona Avenue and Hunts Lane Grade Separation Projects. The Consultant should demonstrate its understanding of the scope and project approach for each project. The selected consultant shall provide CM, materials testing and construction surveying for each project.

### **III. MATERIALS FURNISHED BY SANBAG**

All software, data, reports, surveys, drawings, and other documents furnished to the Consultant by SANBAG for the Consultant's use in the performance of services shall be made available only for use in performing the assignment and shall remain the property of SANBAG. All such materials shall be returned to SANBAG upon completion of services, termination of the Agreement, or other such time as SANBAG may determine.

### **IV. CALTRANS AND LOCAL AGENCY RELATIONSHIP**

The Ramona Avenue and Hunts Lane Grade Separation Projects are local projects with no Caltrans oversight. Caltrans standards are being used for bridge structures and retaining walls; however, there will be no Caltrans review or inspection. The project noted herein will be implemented by a construction contract awarded and administered by SANBAG. The project is being constructed in the City of Montclair (Ramona Avenue Grade Separation Project) and the Cities of San Bernardino and Colton (Hunts Lane Grade Separation Project) and representatives of these entities will be involved in the project. SANBAG will be responsible for, and will be the



sole point of contact for all contractual matters. SANBAG will regularly consult with and inform the local agencies of project progress and all significant issues. Upon completion, each project will be turned over to the respective City/Cities for the portions in each agencies jurisdiction, for their ongoing maintenance of the facility.

V. CONTRACT TYPE

A cost reimbursable plus percentage fee contract, with a total not to exceed amount, will be issued for the contract. Any services provided by the Consultant, which are not specifically covered by the Contract, will not be reimbursed. It is the Consultant's responsibility to recognize and notify SANBAG when services not covered under the Contract have been requested.

Federal funding will be used for this contract, therefore prevailing wage rates apply. The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done are available from the State Department of Industrial Relations, Division of Labor Statistics. The higher of either the minimum Federal wage rates or State prevailing wage rates apply.

The terms of the Contract will be effective for the duration of the project.

VI. MINORITY BUSINESS OPPORTUNITIES AND LOCAL PRESENCE

Federal guidelines will be used for Disadvantaged Business Enterprise (DBE) participation. Firms that demonstrate ability to meet SANBAG's goal of TBD percent participation, by DBE firms, will receive significant preference in the selection process.

Funding for these projects will include federal funds, therefore SANBAG's Local Presence Policy will not apply.

VII. STATEMENT OF QUALIFICATIONS INSTRUCTIONS

Statement of Qualifications (SOQ) will be accepted until 12:00 PM, November 17, 2006. Eight (8) copies are required. SANBAG reserves the right to accept or reject late SOQs at its discretion. Acceptance of a late submittal shall not be construed to mean that SANBAG will accept any late SOQ. SOQs shall be delivered to:

Mr. Darren Kettle  
Director of Freeway Construction  
San Bernardino Associated Governments  
1170 W. Third Street, Second Floor  
San Bernardino, CA 92410

SOQs must contain the information listed below and must be compiled in the following format:

A. Cover Letter

Provide the following information:

- A statement requesting SANBAG to evaluate the submitted SOQ based upon the Scope

of Services for the State Street/University Parkway Grade Separation project.

- Summary description of the work to be performed by firm and each subconsultant firm proposed for the project and an estimate of the percentage of work to be performed by each firm.
- A copy of the latest DBE certification from Caltrans or the DBE Coordinating Council of Southern California, if applicable.
- Indicate the location of the office from which the construction management team will be managed.
- In accordance with SANBAG Policy No. 11000-R9, Sect. 7.A.2.f, provide a response to the following question: Has your firm ever been terminated from a contract? If the answer is yes, see item C below.
- A memorandum from a principal from each subconsultant firm indicating the specific portion of services the subconsultant will be performing.

**B. Contract Termination Circumstances:**

If consultant has ever been terminated from a contract, describe the facts and circumstances in detail, on a separate sheet. See policy for details.

**C. U.S. General Services Administration Standard Form SF330:**

"Architect-Engineer Qualifications". The Form SF330 must conform to the following format:

1. Provide a separate Form SF330 for the prime consultant and each subconsultant. Subconsultants need not supply Sections C and H.
2. Prime consultants should list subconsultants in Section C. If subconsultants are DBE's, provide their respective Caltrans or DBE Coordinating Council of Southern California certification number and expiration date
3. Provide an Organizational Chart in Section D:
  - Provide a chart for each project.
  - Show the relationships between personnel and support staff who are expected to participate on each project.
  - For each person, indicate the firm with whom they are employed.
  - Show the aspects of the services each person will be responsible for performing.
4. List key personnel in Section E. Section E must conform to the following requirements:
  - Every person whose resume is provided in Section E must also be shown on the organizational chart. Resumes of persons who are not shown on the organization chart will not be considered.
  - Section E, number 13 must describe the function the person will be expected to fulfill in connection with the project.
  - Section E, number 17 must list the person's active registrations in California, with the California Registration Number. Personnel (Resident Engineers / Inspectors) in

responsible charge of Construction Management Services must be registered Civil Engineers in the State of California.

- Section E, number 19 should provide a brief history of each person's relevant project experience, including descriptions of his/her role and tasks that he/she performed on each project. Also, identify key tasks each person is expected to perform for these projects under his/ her assigned function.

5. Section F should conform to the following requirements:

- Projects listed in Section F must be projects worked on by personnel shown on the organizational chart and whose resumes are included in Section E. For each project listed, the personnel included in Section E who worked on the project and their project position must be shown.
- In Section F, number 23, include the owner's telephone number and the name of a contact person who can provide a reference. Also include the name and telephone number of the primary contact for the prime consultant, if necessary. Projects without references and telephone numbers will not be considered. List no more than ten projects.
- In Section F, number 24, indicate the project value, the contract value, and the respective values (project and contract) for which the firm was responsible, describe the nature of the firm's responsibility and indicate whether the firm was the prime consultant or a subconsultant.
- Additional information may be provided in Section F to highlight or expand on experience from projects that are especially applicable to the proposed Scope of Services, including an indication of the scope of related services for which the consultant was responsible.

6. Section H should demonstrate the consultant's approach and understanding of the proposed scope of services. This section should provide a detailed discussion of the work tasks and management activities necessary for project completion of both the Ramona Avenue and Hunts Lane Grade Separation Projects. A preliminary staffing plan based upon SANBAG's preliminary schedule should be included. Discussion topics for consideration may include:

- Key project issues, constraints, and critical path items.
- Narrative discussing team organization, coordination, and information flow in reference to the proposed organizational chart.
- Technical and proactive approaches to key services.
- Unique team experience applicable to the proposed Scope of Services.
- Flexibility of proposed roles and responsibilities.
- Quality Assurance and Control.
- Project management, control capabilities, and procedures.
- Plan reviews and response procedures.
- Concurrent assignment of proposed key consultant and subconsultant personnel on other projects.

Where the Scope of Services does not adequately define the tasks required to provide complete professional services, provide descriptions of recommended additional services

and programs.

D. Contract Comments:

Provide a written discussion of any objections or concerns relative to the Terms and Conditions of SANBAG's contract. Please note that SANBAG reserves the right to disqualify any consultant that does not provide a complete written discussion of its contractual objections or to disqualify any consultant based on objections that SANBAG considers non-negotiable. SANBAG does not anticipate making substantive changes to its Terms and Conditions.

E. Entire Statement of Qualifications:

The Consultant's SOQ package is limited to 45 (8 1/2" x 11") pages single-sided. The page limit does not include the outside cover, section dividers, cover letters and subconsultant commitment memorandum, contract comments, or duplication of the organizational chart. SOQs that do not contain the required information or do not contain the required number of copies, eight (8), will not be accepted.

F. Changes:

During the selection process, any changes in key consultant or subconsultant personnel proposed in the SOQ must be brought to the attention of SANBAG immediately.

VIII. CONSULTANT SELECTION

The primary objective of SANBAG is to select highly qualified firms to perform necessary professional services for SANBAG at a fair and reasonable cost. Firms may obtain a copy of the consultant selection policy by accessing the SANBAG website. In addition, SANBAG has established the following criteria for the selection process:

- A. The selection process shall be fair, open, and competitive.
- B. The selection of the consultant firms will be based on clearly stated objectives.
- C. Selection of private consultants/firms shall be based upon demonstrated competence, professional qualifications, experience, and capabilities to perform the required services at a fair and reasonable price to SANBAG, rather than competitive bidding process.
- D. Upon review of the SOQs, a shortlist of firms will be invited to prepare for an interview. The pending contract will be awarded to the responsible, responsive firm best conforming to the RFQ, and is in the opinion of SANBAG, most advantageous to SANBAG. SANBAG reserves the right to reject any and all SOQs and to negotiate with any responsible, responsive firm. SANBAG is under no obligation to issue contracts for the subject services.

IX. NEGOTIATIONS AND ENGAGEMENT

Following the selection of a consultant, the selected firm will submit a cost proposal and participate in contract negotiations with SANBAG staff. For the due date of the contract cost

proposal, please refer to the attached consultant selection schedule in Section XI. Additionally, due to the use of Federal-aid highway funds, the consultant and all subconsultants will be required to pass a preaward audit. The contract cannot be awarded until the preaward audit is completed and passed.

The final contract and Scope of Services will be negotiated. Consultants are encouraged to include in their SOQ any comments relating to the Scope of Services. In addition, Consultants are reminded that *any* comments regarding the Terms and Conditions of SANBAG's standard contract must be noted in the SOQ. SANBAG reserves the right to disqualify any firm that does not provide written discussions of any disagreements it has relative to SANBAG's Terms and Conditions. SANBAG does not anticipate making any substantive changes to its Terms and Conditions.

#### X. CONFLICT OF INTEREST

The selected consultant will not be prevented from participating in future projects to the extent that no direct conflict of interest exists at the time. Firms responsible for a project's design may not participate in construction management/construction inspection of the project. The determination of a conflict of interest, direct or incidental, shall be at the sole discretion of SANBAG.

#### XI. SCHEDULE FOR CONSULTANT SELECTION

Issue Request for Qualifications	October 9, 2006
Plan/Document Reviews	October 11, 2006
Statement of Qualifications Due	November 17, 2006
Shortlist and Notify Consultants (Anticipated)	December 6, 2006
Interview Shortlisted Consultants (Anticipated)	January 8, 2007
Select Consultant (Anticipated)	January 9, 2007
Contract Cost Proposal Due (Anticipated)	January 16, 2007
Pre-Award Audit (Anticipated)	January 16, –March 30, 2007*
Major Projects Committee Approval	April 12, 2007
SANBAG Board Approval (estimated)	May 2, 2007
Notice to Proceed (estimated)	May 11, 2007

*\* The completion date for the preaward audit is dependent upon the State's schedule and backlog.*

Dates are subject to change. Schedule updates will be posted on SANBAG's internet website: [www.sanbag.ca.gov](http://www.sanbag.ca.gov) under "Latest RFP/RFQ Postings."

#### Contact List:

Appointment/Document Requests:	Christine Coleman or Deanne Oberdank	(909) 889-8611 x154 (909) 889-8611 x 136
Questions/Comments:	Lisa DaSilva	(909) 889-8611 x147

*ATTACHMENT "A"*

Scope of Services

By and between

San Bernardino Associated Governments/  
San Bernardino County Transportation Authority

And

TBD

To

Provide Construction Management, Material Testing and Construction  
Survey Services

For

Ramona Avenue Grade Separation Project and Hunts Lane Grade  
Separation Project

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A. DESCRIPTION OF SERVICES

The San Bernardino Associated Governments (SANBAG) will utilize the services of CONSULTANT to support the construction activities as described below. The scope of services is for the Ramona Avenue Grade Separation Project and the Hunts Lane Grade Separation Project, which is anticipated to go out to bid in the Spring of 2007 and the Fall of 2008, respectively. CONSULTANT will provide construction management, materials testing, and construction surveying for the project. A description of the project is given below.

RAMONA AVENUE GRADE SEPARATION PROJECT

The Ramona Ave. grade separation project proposes to construction of a three span roadway bridge over the Union Pacific Railroad (UPRR) tracks replacing the existing at-grade crossing. The project has two major phases; street and drainage improvements, and bridge construction. The street improvements include reconstruction of the Dale St/Ramona Ave intersection, Camulos Ave/State St intersection, Kimberly Ave/Brooks St intersection, paving, utility relocation, and detour construction. Ramona Ave will be closed during the bridge construction and traffic will be detoured to Mission Blvd, Monte Vista, and Holt Blvd. The proposed bridge is approximately 267 feet long, three span, concrete box girder structure. The bridge will span two existing and two future UPRR tracks.

This project will provide for a new connection road between Ramona Avenue and State Street, resulting in a minor realignment of State Street to accommodate bridge construction and preserving vehicular access to adjacent properties affected by the proposed grade crossing.

The project is located on Ramona Ave. between Mission Blvd. and Holt Blvd. in the City of Montclair. The construction will be completed in approximately 24 months. The Ramona Grade Separation construction will be completed prior to constructing the Hunts Lane Grade Separation.

HUNTS LANE GRADE SEPARATION PROJECT

The proposed project involves construction of an overhead on Hunts Lane at the UPRR. The overhead will be constructed on essentially the same alignment as existing Hunts Lane and would have four vehicle travel lanes (two lanes in each direction), a sidewalk, and a Class 2 (on road striped) bicycle lane on each side. The overhead is proposed as a single-span structure, and the approaches are proposed as retained fill.

UPRR is proposing three new spur tracks west of Hunts Lane. The proposed overhead will span the existing tracks and will not impact railroad operations, including the proposed additional spur tracks.

The intersection of Club Center Drive and Hunts Lane will be eliminated; Club Center Drive will be constructed as a cul-de-sac at Hunts Lane. Oliver Holmes Road, Commercial Road, and Riverwood will remain connected to Hunts Lane and will be raised to match the grade of the newly elevated Hunts Lane. The proposed roadway profile will maintain these intersections and will provide for the existing driveways at several key locations. The profile slightly reduces the design speed of the roadway in order to maintain vertical stopping sight distance.

Drainage improvements include modifications to the street storm drain system near the Commercial Road intersection to combine existing storm drains into one drainage line. Currently, there are separate storm drains from each city running to the channel. The concrete-lined channel would be



spanned with a concrete slab to allow emergency vehicles access through the fill from one city to the other. The slab will not impact the channel but will span across it.

Utilities located within Hunts Lane, including the high-voltage power transmission lines, will require relocation; however, some will remain under fill used to elevate the roadway. An alternate electrical utility feed will be installed along Steel Road under the I-215 freeway in order to maintain electricity during construction. Utilities in the existing southwest parkway will remain in place.

Hunts Lane will be closed during construction and traffic will be detoured along Washington Street, Waterman Avenue, and Redlands Boulevard. Construction of the project will take approximately 16 months.

The Ramona Avenue and Hunts Lane Grade Separation Projects, as described by the plans and specifications, shall include construction of roadways, bridges, drainage facilities, and retaining walls. CONSULTANT shall provide qualified construction management and inspection, materials testing and construction surveying personnel to perform a wide variety of construction management, support and contract administration duties as outlined in this Scope of Services for the Project.

The SANBAG Contract Manager for this contract will be:

Mr. Darren Kettle  
Director of Freeway Construction

SANBAG has selected Fluor Corporation as Program Manager for the Measure I Valley Major Projects. This Project is part of that program. As part of the overall SANBAG/Fluor Program Management staff, SANBAG has also designated a Construction Manager to coordinate all construction activities. The CONSULTANT shall report to and receive direction from SANBAG through the Contract Manager, or his designees. The SANBAG Construction Manager is responsible for coordination of all SANBAG construction activities and for coordinating the efforts of the total construction team. The SANBAG Project Managers will be the main contact and primary source of information between SANBAG, cities, outside agencies, supporting consultants and the public for the individual construction projects.

#### B. PERFORMANCE REQUIREMENTS

**Construction Management:** CONSULTANT shall furnish a Project Manager to coordinate CONSULTANT operations with SANBAG. The Project Manager shall be responsible for all matters related to CONSULTANT personnel and operations. It is recommended that, in addition to a Project Manager, a single point of contact or Senior Resident Engineer be assigned to direct and coordinate construction activities under this contract. Other Resident Engineers or Assistants may be assigned to each specific project or project responsibilities as needed. Resident Engineers shall be Civil Engineers, registered in the State of California. The Resident Engineers shall be in responsible charge of construction activity within his/her project.

The number of CONSULTANT personnel assigned to the project will vary throughout the duration of the contract. CONSULTANT personnel will be assigned, in varying levels of responsibility, as needed by the CONSULTANT to meet the project schedule, project requirements, and construction activities. The duration of the assignments may vary from a minimum of one (1) week to the full term of the Project. CONSULTANT personnel shall be made available within one (1) week from written notification by SANBAG to a maximum of six (6) weeks after local agency acceptance of the Project.

Resumes of personnel must be submitted to SANBAG for review and approval prior to assignment to the Project. SANBAG and CONSULTANT will jointly determine the quality and quantity of services that are required by CONSULTANT personnel. Personnel selected for assignment by CONSULTANT shall be made available for personal interviews prior to acceptance by SANBAG. If, in the opinion of SANBAG, an individual lacks adequate experience, the individual may be rejected or may be accepted on a trial basis until such time the individual's ability to perform the required services has been demonstrated. If, at any time, the performance of CONSULTANT personnel is unsatisfactory to SANBAG, SANBAG may release him/her by written notice and may request another qualified person be assigned.

If CONSULTANT personnel are on leave of absence, the Project Manager shall provide approved, equally qualified replacement personnel until the assigned personnel returns to the Project.

The typical workday includes all hours worked by the construction Contractor. If necessary, overtime for CONSULTANT personnel may be required. The construction Contractor's operations may be restricted to specific hours during the week, which shall become the normal workday for CONSULTANT personnel. The Project Manager, with concurrence from SANBAG, shall have the authority to increase, decrease, or eliminate CONSULTANT personnel work hours dependent on the schedule and requirements of the construction Contractor. All overtime required by CONSULTANT personnel shall be approved and authorized by SANBAG prior to each occurrence.

CONSULTANT personnel shall be knowledgeable of and comply with all applicable local, state, and federal regulations. CONSULTANT personnel shall cooperate and consult with SANBAG, State, and City officials during the course of the Project. CONSULTANT personnel shall perform duties as may be required to assure that construction is being performed in accordance with the Project plans and specifications. CONSULTANT personnel shall keep accurate and timely records and document all work performed by the Contractor and CONSULTANT.

CONSULTANT personnel shall assist in monitoring compliance with:

1. Labor standards and related wage determination decisions of the Secretary of Labor
2. Safety and accident prevention provisions for the Project
3. Equal opportunity provisions for the Project.

All services required hereunder shall be performed in accordance with California Department of Transportation guidelines, regulations, policies, procedures, manuals, and standards, except as noted in the special provisions.

**Materials Testing:** The number of field testing personnel assigned to the project will vary throughout the duration of the construction contract. CONSULTANT personnel will be assigned as needed by the Resident Engineers to meet the schedule of the construction contractor.

It is anticipated that at least one field technician will be required throughout the construction contract period. At times, additional technicians may be required to provide support for on-going construction activities. CONSULTANT will be notified sufficiently in advance of changed project requirements. The duration of assignments could vary from a minimum of a few days to the full term of the project. CONSULTANT personnel will be available within one (1) day of written notification by SANBAG.

surveys for each project. The number of survey crew(s) assigned to each project will vary throughout the duration of the construction contract. It is anticipated that a minimum of one (1) survey crew will be required throughout the construction of each project. Additional crews may be required to provide support for construction activities. CONSULTANT will be notified in advance of a change in project requirements. The duration of assignments could vary from a minimum of a few days to the full term of the project. CONSULTANT personnel will be assigned as needed by the Resident Engineer(s) to meet the schedule of the construction contractor.

It is the intent of SANBAG to maintain a consistency of construction survey quality throughout each phase of each project. Therefore, CONSULTANT is encouraged to provide the same field personnel for the duration of construction. It is important that the Field Party Chief(s) assigned to a project be completely familiar with the survey requirements and the assignments for the project.

Resident Engineers will have the authority to increase, reduce, or eliminate CONSULTANT hours dependent on the schedule and the requirements of the construction contractor. On days when work is not performed by the construction contractor, such as rainy or unsuitable weather days, CONSULTANT will not provide services unless authorized by the Resident Engineer. When possible, the Resident Engineer will provide 24 hours advance notice if CONSULTANT services are not required.

Construction surveying will not be performed when conditions such as weather, traffic, and other factors prevent safe and efficient operation.

Resumes of CONSULTANT personnel and certification must be submitted to SANBAG for review. CONSULTANT personnel must be approved by SANBAG prior to assignment to a project. SANBAG and CONSULTANT will have the responsibility of determining the quality and quantity of work performed by CONSULTANT personnel. If, at any time, the level of performance by CONSULTANT personnel is below expectations, SANBAG may release the survey crew member and request that another be assigned (as needed).

If CONSULTANT's survey crew personnel assigned to the project is on a leave of absence, the Project Manager will provide an equally qualified replacement(s) until the original employee(s) returns to work. The replacement will be required to meet all the requirements of the permanently assigned employee.

CONSULTANT personnel will:

- Be knowledgeable of, and comply with all, applicable local, Caltrans, state, and federal regulations.
- Cooperate and consult with SANBAG officials during the course of the contract.
- Perform duties as may be required to assure construction is performed in accordance with the project plans and specifications.
- Keep records and document work as directed by the SANBAG Resident Engineer(s).

All services required hereunder will be performed in accordance with Caltrans regulations, policies, procedures, manuals, and standards.

### C. DUTIES AND RESPONSIBILITIES

It is noted and acknowledged that the Projects will be executed under separate construction contracts as described in the Project Description. Where the terms "Project" and "Contractor" are used herein, they shall apply to both projects and Contractors.

1. Pre-construction Services

a. Plan Review

CONSULTANT shall review construction contract documents prior to construction. Tasks include review of plans, specifications, technical reports, resident engineers' files, and associated items in order to verify completeness and consistency throughout the Project. At minimum, CONSULTANT shall check for quantity discrepancies, potential conflicts, constructability, and consistency between plans, specifications and pay items.

b. Schedule

CONSULTANT shall review the proposed Project schedule, compare it to the Project plans and specifications, and provide recommendations to SANBAG, as appropriate, to ensure efficiency of Contractor and CONSULTANT operations and safe and expeditious completion of the Project.

c. Budget

CONSULTANT shall review the Project estimate and provide recommendations to SANBAG, as appropriate, to ensure efficient utilization of funds and control of project costs.

2. Bid Process

a. Bid Documents

CONSULTANT shall assist SANBAG, as requested, with the following tasks:

1. Review of bid documents
2. Preparation of bid tabulations

b. Pre-construction Meetings

CONSULTANT shall assist SANBAG in conducting one or more, pre-construction meetings with all involved parties on the Project. Parties may include, but are not limited to, the Contractor, the design engineer, cities, utility companies, and developers.

c. Contract Award

CONSULTANT shall assist SANBAG, as requested, with the following tasks:

1. Review of bid for completeness and responsiveness

2. Perform bid analysis
3. Development of contractor payment schedules, and other procedural items.
4. Checking Contractor references, licenses, insurance, and sureties.
5. Coordination with prospective Contractor for award of construction contract(s).
6. Check DBE submittal?

All processes will be consistent with procedures outlined by the California Department of Transportation for Special Funded Programs and Local Assistance Procedure Manuals.

### 3. Project Administration

- a. CONSULTANT shall administer project construction contracts using Caltrans Construction Manual as a guideline.
- b. CONSULTANT shall conduct regular project coordination meetings with Contractors, SANBAG, local agencies, and design engineer, as appropriate.
- c. CONSULTANT shall prepare Contractor progress payments and maintain payment records and supporting documentation. All progress payments shall be reviewed by SANBAG for approval.
- d. CONSULTANT shall establish and maintain Project records. Project record keeping shall include, but are not limited to, correspondence, memoranda, contract documents, change orders, claims, SANBAG and engineer directives, meeting minutes, shop drawings, supplementary drawings, and requests for payment. CONSULTANT shall maintain a record of the names, addresses, and telephone and fax numbers of the Contractors, subcontractors, and principal material suppliers.
- e. CONSULTANT shall establish and maintain a filing system for each Project using the Caltrans Construction Manual as a guideline.
- f. CONSULTANT shall monitor Contractors' construction schedules on an ongoing basis and alert SANBAG to conditions that may lead to delays in completion of the Project.
- g. CONSULTANT shall prepare and submit a monthly Activity Summary Report for each project. The activity report shall include construction activity, accomplishments, and status of project budget and schedule.
- h. CONSULTANT shall review and ensure compliance with environmental requirements.
- i. CONSULTANT shall participate in partnering sessions with the Contractors,

SANBAG, and Local Agencies, as required.

- j. CONSULTANT shall ensure that the Project meets all provisions of the Caltrans Quality Assurance Program Manual.
- k. CONSULTANT shall review Contractors' certified payroll records and assist SANBAG with labor compliance.
- l. CONSULTANT shall ensure that the Project meets all provisions of the Caltrans Storm Water Pollution Prevention Plan (SWPPP).
- m. CONSULTANT shall assure that the Project meets all applicable regulations of the Air Quality Management District (AQMD).

4. Construction Coordination

- a. CONSULTANT shall provide a minimum of one qualified Senior Resident Engineer and other qualified Resident Engineers, as needed to effectively manage each Project.
- b. CONSULTANT shall act as a prime point of contact between Contractor, SANBAG, CONSULTANT's construction surveyor, CONSULTANT's materials inspector, and utility companies. CONSULTANT may, when requested by SANBAG, act as point of contact between design engineers, cities, and the public.
- c. CONSULTANT shall maintain regular contact with SANBAG's Construction Manager.
- d. CONSULTANT shall coordinate utility relocations with utility companies and their designees, as well as the utility inspector.
- e. CONSULTANT shall review Project plans and special provisions for possible errors and deficiencies prior to construction of any specific element and report such findings to SANBAG. Should SANBAG determine that changes are necessary, CONSULTANT shall assist in implementation and processing of change orders in accordance with contract documents.
- f. CONSULTANT shall provide all required monitoring, coordination, and tracking of construction progress to ensure the Project proceeds on schedule and according to the order of work in the plans and special provisions. CONSULTANT shall expedite work, as required, to maintain schedule in conjunction with the overall construction staging program.
- g. CONSULTANT shall coordinate review of shop drawings and Requests for Information (RFI) with the Construction Manager. CONSULTANT shall log and track all submittals and requests.
- h. CONSULTANT shall provide a qualified SWPPP coordinator who shall review contractor prepared Storm Water Pollution Prevention Plans (SWPPP) and coordinate approval with SANBAG. CONSULTANT shall cooperate with

monitoring agency inspections and field reviews.

- i. CONSULTANT shall coordinate the implementation of SANBAG approved changes with the Construction Manager and the design engineer.
- j. CONSULTANT shall review and approve falsework and shoring plans.
- k. CONSULTANT shall review and approve Traffic Control Plans.
- l. CONSULTANT shall coordinate all Project construction activities with other on-going projects within and adjacent to the Project limits.

5. Construction Inspection

- a. CONSULTANT shall coordinate all required inspections necessary for the Project. CONSULTANT shall ensure that appropriate City and local agency personnel are notified and present as required throughout the Project. CONSULTANT shall notify SANBAG immediately regarding any directives, recommendations, notices, etc. received from agencies other than SANBAG.
- b. CONSULTANT shall perform daily on-site observations of the progress and quality of construction to determine if the work being performed is in general conformance with the contract documents, all applicable laws, codes, and ordinances.
- c. CONSULTANT shall exercise reasonable care and diligence to discover and promptly report to SANBAG any and all defects or deficiencies in the materials or workmanship used in the Project.
- d. CONSULTANT personnel assigned to the Project shall be thoroughly familiar with Caltrans Standard Specifications, Caltrans Standard Plans, and the Standard Specifications for Public Works Construction (Greenbook). CONSULTANT personnel shall have the ability to read and interpret construction plans and specifications. CONSULTANT personnel shall also have knowledge of State of California Construction Safety Orders (CalOSHA) and traffic control practices as specified in the Work Area Traffic Control Handbook (WATCH). In addition, CONSULTANT personnel shall be familiar with the construction requirements of Caltrans Storm Water Pollution Prevention Program.
- e. Assignments to be performed by CONSULTANT personnel shall include, but are not limited to, the following:
  - 1. Paving and subgrade inspection, structures and foundation inspection, signing and striping inspection, quantity calculations, checking grade and alignment, construction traffic control, and duties that may be required to determine that construction of the Project is being performed in accordance with the contract documents.
  - 2. Identifying actual and potential problems associated with the Project and recommending sound engineering solutions.

3. Maintaining awareness of safety and health requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions for the protection of the public and Project personnel.
4. Preparing complete and accurate daily reports, calculations, project records, payment quantity documents, reports, and correspondence related to Project activities.
5. Preparing construction sketches, drawings, and cross-sections, as necessary.
6. Assisting in the preparation of as-built plans.
7. Providing inspections for environmental compliance.
8. Maintaining awareness of water discharge requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions required by Caltrans.
9. Monitoring Contractors' compliance with applicable regulations required by AQMD.
10. Other duties as may be required or reasonably requested.

#### 6. Project Support

##### a. Construction Surveys

CONSULTANT shall perform construction surveying services, field calculations, and home office calculations to support construction of the projects. CONSULTANT may be requested to review available survey data, construction plans, and right-of-way plans to confirm compatibility and to identify discrepancies prior to and during construction of proposed projects. The Resident Engineer will assign survey work to the CONSULTANT by issuing a "Request for Survey Services". Requests may include, but not be limited to, the following types of surveys and related services:

##### I. Construction Surveys

CONSULTANT shall assist the Resident Engineer in all phases of construction staking and calculations as needed.

a. Survey calculations and adjustments shall be performed with established and computed coordinates based on the California Coordinate System.

b. Cross-section data collection shall be performed by conventional and terrain line interpolation survey methods.

c. Survey data will include topography, cross-section, and other survey data in computer formats compatible with the Caltrans computer survey and design systems.



d. Prepare and maintain survey documents. Survey documents include survey field notes, maps, drawings, and other survey documents.

e. Perform construction staking, including but not limited to:

- Utility relocations.
- Clearing limits.
- Slope staking.
- Storm drain, sanitary sewer, and irrigation systems.
- Drainage structures.
- Curbs, gutters, and sidewalk.
- Horizontal and vertical control for structures and portions of structures (bents, abutments, wingwalls, etc.).
- Rough grade.
- Finish grade.

f. Monitor for settlement if required.

g. Global Positioning Satellite (GPS) equipment shall be made available if required by SANBAG.

## II. Grid Grades

Grid grade data shall provide pavement elevations at the station line, the left edge of pavement, the right edge of pavement, and the right edge of travel way at 25 foot intervals for travel lanes.

## III. Open Ended Traverses and Profile Data Sheets

Separate open-ended traverse calculations and point maps shall depict plan data for station lines, utility lines, wall layout lines, and abutment/bent alignment. Specific information to be shown will be part numbers, coordinates, bearings, and curve data.

Profile data sheets are required for all profiles shown on the plans identifying vertical design elements such as grade, point of intersection (PI) location, beginning of vertical curve (BVC) location, end of vertical curve (EVC) location, and curve length.

## IV. Three Line Profiles

Separate profile plots are required for the left edge of pavement, the right edge of pavement, and the edge of shoulder for all travel lanes.

## V. Right of Way Lines

a. Existing right of way and easements will be established from Local Agency's record information and existing monumentation.

- Right of way monumentation shall be renewed and restored in accordance with Section 10.4 of the Caltrans "Survey Manual" and the State of California Land Surveyor's Act.

- Corner records and records of surveys shall be prepared and filed in accordance with Chapter 10 of the "Caltrans Surveys Manual" and the State of California Land Surveyor's Act.

- Perpetuate existing monumentation.  
Includes restoring, renewing, referencing, and resetting existing boundary related monumentation. In addition, stake areas where construction disturbs the existing right of way, preparing and filing required maps and records.

b. New right of way and easements will be established from plans, right of way maps, utility drawings, and Local Agency record information, and existing monumentation.

- Right of Way Surveys  
Includes research and preparation filing of required maps and records. In addition, locate and set monuments for right of way and easement lines, staking for right of way and easement fences.

- Final monumentation  
Includes setting of centerline points of control upon completion of construction.

#### VI. Special Design – Data Surveys

Includes drainage, utility, and surveys required for special field studies.

#### VII. Control Survey

Includes project control surveys, aerial mapping control surveys, horizontal and vertical control surveys. In addition control surveys will include restoration, renewal, reference, relocation, and resetting of existing control monumentation. The CONSULTANT will be required to provide horizontal and vertical control at the end of each bridge.

#### VIII. Topographic Surveys

Topographic surveys will normally be compiled by ground survey methods only. CONSULTANT will provide all necessary Project related surveys and construction staking, including horizontal and vertical control, right of way, and easements. CONSULTANT shall coordinate all staking and verify accuracy. CONSULTANT shall ensure timely coordination of all staking requests from the Contractor.

b. Materials Testing and Geotechnical Services

CONSULTANT will provide experienced personnel, equipment, and facilities to

perform various construction materials sampling and testing. Laboratory and field materials testing will be used to ensure that structure and roadway construction work conforms to California State Department of Transportation (Caltrans) standards, specifications, and special provisions for material quality and workmanship.

All field and laboratory testing is to be performed in accordance with California Test Methods as specified in the Caltrans "Manual of Test".

CONSULTANT will be responsible for the accuracy and completeness of all test data compilation and results.

c. Public Relations

SANBAG may retain a public relations firm to implement a public awareness program for both grade separation projects. SANBAG shall coordinate public awareness for the grade separation projects directly in conjunction with the local agencies. The SANBAG Public Information Officer (PIO) will manage all public awareness activities for these Projects. CONSULTANT shall cooperate with SANBAG's PIO and its public relations firm in the dissemination of appropriate Project information as appropriate. Should CONSULTANT Resident Engineers receive complaints from the public or other entities, he/she shall promptly notify SANBAG's PIO. CONSULTANT shall maintain a log of all complaints and inquiries. When appropriate, CONSULTANT shall direct the Contractor to remedy complaints in a timely manner.

d. Permits

CONSULTANT shall review each project for permit compliance and coordinate with SANBAG, the design engineer, and other SANBAG consultants to ensure that necessary permits are obtained. CONSULTANT shall assist SANBAG in the coordination, timely processing and verification of approval for all permits. CONSULTANT shall maintain permits and permit documentation on site.

7. Cost and Schedule

a. CONSULTANT shall monitor and track the following:

1. Contract pay item quantities and payments
2. Contract change orders
3. Supplemental work items
4. Agency furnished materials
5. Contingency balance
6. Project budget

b. CONSULTANT shall review and monitor Contractor's schedule and inform SANBAG of any significant changes or deviations in the schedule.

c. CONSULTANT shall provide and maintain a Project staffing plan of field office personnel. In cooperation with SANBAG, the staffing plan shall be periodically

updated to reflect Project progress and needs.

8. Contract Change Orders and Claims

- a. CONSULTANT shall receive and evaluate requests for changes and/or substitutions by the Contractor. Contract Change Orders submitted to SANBAG shall be accompanied by CONSULTANT recommendations. Where applicable, CONSULTANT shall convey proposed changes to design engineer, or other project consultants. If the requested changes are accepted, CONSULTANT shall negotiate and prepare appropriate Contract Change Orders.
- b. CONSULTANT shall attempt to avoid all unnecessary Contract Change Orders. When a Contract Change Order is necessary, CONSULTANT shall consult with SANBAG prior to its preparation. Unless directed otherwise by SANBAG, the preferred method of payment for Contract Change Orders should be as follows
  1. Agreed Price
  2. Adjustment in compensation to a bid item
  3. Time and materials or Force Account
- c. CONSULTANT shall attempt to identify all potential claims, track and monitor unresolved claims, and implement claims avoidance processes.
- d. CONSULTANT shall assist SANBAG, as requested, in the identification, resolution, and final disposition of claims filed by the Contractor or third parties against SANBAG or the Project.

9. Safety

In addition to the requirements specified elsewhere in this contract, the following shall also apply:

- a. CONSULTANT shall implement and conduct a comprehensive safety program including regular tail-gate safety meetings for CONSULTANT personnel. CONSULTANT shall provide monthly CONSULTANT status of safety reports.
- b. CONSULTANT shall comply with State of California Construction Safety Orders and provisions of the Caltrans Construction Manual.
- c. CONSULTANT shall provide appropriate safety training for all CONSULTANT field personnel.
- d. CONSULTANT shall provide all necessary safety equipment as required for CONSULTANT personnel.

10. Project Close Out

- a. CONSULTANT shall prepare a list of items to be completed and/or corrected by the Contractor for final completion of the Project.
- b. CONSULTANT shall collect and furnish as-built information to the design engineer for preparation of as-built drawings including pre-stress drawings and pile logs, as applicable.
- c. CONSULTANT shall review and verify completeness of as-built drawings.
- d. CONSULTANT shall conduct a final walk-through with SANBAG, Local Agencies, Contractors, and design engineers.
- e. CONSULTANT shall prepare final construction reports including the Project Completion Report.
- f. CONSULTANT shall prepare and deliver to SANBAG all project files.
- g. CONSULTANT shall assist SANBAG and Contractor in obtaining final release of all project permits.

D. DELIVERABLES

1. Inspector daily reports, extra work diaries, and Resident Engineers' daily diaries
2. Monthly Project Activity Summary Reports
3. Monthly Contractor progress payments, back-up documentation, and Contractor payment records.
4. Contractor final payment documents, delivered to SANBAG no later than ten (10) working days after acceptance by SANBAG of the completed construction projects
5. Project Completion Report
6. All project files, project reports, correspondence, memoranda, shop drawings, project logs, change order data, claims and claim reports, and Contractor payment records
7. Certified payrolls and fringe benefit statements for all employees, CONSULTANT and Contractor, who are subject to the State and/or Federal prevailing wage rates
8. All material test results will be provided in accordance with the Caltrans Standard Specifications and Special Provisions, and the Caltrans "Manual of Test". Failing tests will be immediately reported to the SANBAG Resident Engineer or Structures Representative. All test results will be recorded on the appropriate forms as prescribed in the Caltrans "Manual of Test". The test documents will be legible and show the identity of the tester where appropriate. A notebook containing all results will be kept per Caltrans requirements.
9. Unless otherwise specified in the survey request, the deliverables shall conform to the following:

- a. Survey points, lines, and monuments shall be established, marked, identified, and referenced as required by survey request and requirements herein.
- b. Survey notes, drawings, calculations, and other survey documents and information shall be completed as required by the survey request and the requirements herein.
- c. All original survey documents resulting from this contract, including original field notes, adjustment calculations, final results, and appropriate intermediate documents, shall be delivered to the Resident Engineer and shall become the property of SANBAG. A copy of all survey documents furnished by SANBAG shall be retained by CONSULTANT for future reference.

When the survey is performed with a total station survey system, the original field notes shall be a hard copy in a readable format of the data (observations) as originally collected and submitted by the survey party. The hard copy shall be signed by the Party Chief. If the Party Chief is not licensed, the person in "responsible charge" will be required to sign.

- d. Deliverables to the Resident Engineer shall follow the format specified below:
  - Horizontal Control
  - Alpha numeric hard copy point listing with adjusted California Coordinate System northing and eastings and the appropriate descriptions.
  - Vertical Control
  - Alpha numeric hard copy benchmark listing with adjusted elevations compatible with the design datum.
  - Topography
  - Alpha numeric hard copy listing, hard copy drawing, and computer aided drawing and design (CADD) digital drawing. The CADD drawing shall be provided on magnetic tape or disks in Intergraph IGDS version 8.8 format. Tapes and disks shall be compatible with Caltrans computer system. Topography symbology shall conform to the Caltrans "Drafting and Plan Manual".
  - Cross – Section Data

Data collection method used to collect cross-section data and the coding (feature description) of terrain data for cross-sections shall conform to the survey request requirements. Deliverables shall depend on the data collection method as follows:

1. Conventional Cross – Sections (each cross – section):  
For each cross - section and alpha numeric listing, a hard copy drawing, and a computer formatted file compatible with the Caltrans computer system. Computer formatted cross – sections shall be provided on magnetic tapes or disks compatible with the Caltrans computer system.
2. Terrain Line Interpolation Cross – Section Data (each terrain line interpolation survey):  
Terrain line interpolation cross – sections shall include an alpha numeric listing, a hard copy plan view drawing of the terrain lines, and a computer input file. The computer input file shall be provided on magnetic tape or disks and shall be in a

format compatible with the Caltrans Terrain Line Interpolation computer program.

e. Data Collector Data

If specified in the survey request, the raw data from the data collector shall be provided in a format conforming to the survey request requirements

f. Other

As specified in the survey request.

E. EQUIPMENT AND MATERIALS TO BE PROVIDED BY CONSULTANT

1. CONSULTANT shall provide all necessary equipment including software, materials, supplies, miscellaneous tools, and safety equipment required for its personnel to perform the services accurately, efficiently, and safely. Only those items listed in Attachment B, CONSULTANT Cost Proposal, shall be reimbursed by SANBAG.
2. CONSULTANT personnel shall be provided with vehicles suitable for the location and nature of the work involved. Vehicles shall be equipped with locking tool boxes and detachable flashing yellow lights.
3. CONSULTANT personnel shall be provided with a mobile radio, cellular phone, or other means to assure full-time communication. If a radio system is to be used, CONSULTANT shall provide a base station at the field office.
4. CONSULTANT personnel shall be provided with all applicable standard plans, specifications, and other standards as appropriate (see item G below).
5. For Materials Testing, CONSULTANT and its staff will be fully equipped at all times to perform the services required, including but not limited to the following:
  - a. An on-site mobile laboratory or laboratory in close proximity to the project will be required. The type and location of the lab should be such that it can meet the needs of the project in an efficient, time effective manner. The type and location of the lab should be such that it can meet the needs of the project in an efficient, time effective manner. The laboratory is to be fully staffed, equipped, and supplied to conduct all required soils, materials, and concrete breaking tests in a timely manner.
  - b. CONSULTANT's personnel will be provided with radio equipped vehicles suitable for the location and nature of work involved. Radio equipment will be capable of communicating on the 47.08 MHz channel. Upon completion of this contract, the consultant will remove the capability of operating on the 47.08 MHz channel. CONSULTANT vehicles will have flashing lights, visible from the rear, with a driver control switch. Vans without side windows will not be used. SANBAG furnished magnetic logos will be affixed to each side of the vehicle at all times the vehicle is being used for the work under this contract.

Each vehicle is to be fully contained with all necessary equipment and supplies necessary to

perform the field sampling and tests required.

- c. Field personnel will be provided with all necessary safety equipment to permit work to be performed safely and efficiently within operating highway and construction zone environments.
  - d. All equipment to be calibrated as per Section 3-10 and 3-11 of Caltrans' Quality Assurance Program Manual.
6. For construction surveying, CONSULTANT and staff shall have adequate equipment and supplies to complete the required survey work. Equipment and supplies shall, include, but not be limited to:
- a. Survey vehicles:

Survey vehicles will be suitable to perform the required work in varying terrain and conditions encountered on the project. Vehicles shall be fully equipped with all necessary tools, instruments, supplies, and safety equipment required to perform the work accurately, efficiently, and safely. Vehicles shall be equipped with a flashing yellow beacon light.
  - b. Data Processing Systems:

Data processing systems shall include hardware and software to:

    - Performing survey and staking calculations from the design plans and specifications;
    - Reduce survey data collected with conventional and total station survey systems;
    - Perform network adjustments for horizontal and vertical control surveys;
    - Format survey data to be compatible with the Caltrans computer survey and data system.
  - c. Drafting equipment and supplies.
  - d. Digital calculators.
  - e. Hand tools as appropriate for the requested survey work.
  - f. Traffic cones (minimum 25). Traffic cones shall be 28 inches in height (minimum).
  - g. Traffic control devices as required to perform the requested survey work. Traffic control devices include signs, sign bases, flags, and hand held signs.
  - h. Leveling instruments and equipment:
    - Self-leveling level. Precision: standard deviation in one mile of double run leveling 0.005 feet or less.
    - Suitable level rods for the work to be performed.
  - i. Distance measuring instruments and equipment:



- Electronic distance measurer (EDM). Precision: standard deviation 3 mm plus 3 PPM, or less; Range: Minimum one mile under average atmospheric conditions.
  - Prisms, sufficient to perform the required work.
  - Tapes; steel, cloth.
- j. Angle measuring instruments and equipment:
- Theodolite for non-control surveys; Precision: direct circle reading to three seconds, or equivalent, horizontal and vertical.
  - Targets as required to perform the work.
- k. When required for efficient survey operations, total station survey systems consisting of an electronic angle measuring instrument, EDM, and electronic data collector shall be provided. The angle measuring instruments and EDM shall conform to the requirements for the equipment previously listed.
- l. Radio or cellular communications equipment for communication between field office and field crews.
- m. Caltrans manuals, standards, forms, and other policies and procedures to be followed to perform the required work.

F. MATERIALS TO BE FURNISHED BY SANBAG

1. SANBAG will provide copies of all Project construction documents including plans, special provisions, reports, designer prepared resident engineer files, and contracts.
2. SANBAG will provide copies of all previously secured permits and Project authorizations.
3. SANBAG will provide office space, Consultant will provide telephones, desks, chairs, computers, and appropriate office equipment.
4. Caltrans manuals and standards as listed in Section G, Standards, forms and other policies and procedures to be followed by CONSULTANT personnel in the performance of the services. Manuals and standards furnished by Caltrans are for CONSULTANT use only and will be returned at the end of the contract period or when no longer needed by a CONSULTANT employee.
5. Appropriate forms for recording test data in accordance with Caltrans practices and procedures outlined in the "Manual of Test".
6. Magnetic SANBAG logos to be affixed to CONSULTANT vehicles.

G. STANDARDS

All construction inspection, surveys, materials sampling and testing, and contract administration shall be in accordance with the Project bid documents, special provisions, plans, and current Caltrans manuals including:

1. Construction Manual and its revisions
2. Bridge Construction Records and Procedures Manual
3. Quality Assurance Program Manual
4. Manual of Traffic Controls for Construction and Maintenance Work Zones
5. Caltrans Standard Specifications and Standard Plans.
6. Caltrans Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual
7. Manual of Test (3 volumes)
8. Survey Manual
9. District 8 Standard Staking Procedures Manual

Work not covered by the manuals shall be performed in accordance with accepted professional standards.

Surveys performed by CONSULTANT shall conform to the requirements of the Land Surveyor's Act. In accordance with the Land Surveyor's Act, "responsible charge" for the work shall reside with the Licensed Land Surveyor or a pre-January 1, 1982, Registered Professional Civil Engineer in the State of California.

Unless otherwise specified in the survey request, control surveys shall conform to second order (modified) accuracy standards as specified in the Caltrans "Survey Manual".

Additional standards for specific survey work may be included in the applicable request for survey. Such standards supplement the standards specified herein. If additional standards conflict with the standards specified herein, the "Survey Request's" standard shall govern.

The Resident Engineer and SANBAG will decide all questions which may arise as to the quality or acceptability of deliverables furnished and work performed for this contract. Any CONSULTANT employee who does not perform adequately will be replaced if directed by the SANBAG Construction Manager.

#### H. Availability and Work Hours

The typical workday includes all hours worked by SANBAG's construction Contractor. The construction Contractor's operations may be restricted to specific hours during the week, which will become the normal workday for CONSULTANT's personnel. On days when work is not performed by the construction contractor, such as rainy or unsuitable weather days, CONSULTANT services will not be provided unless authorized by the SANBAG Resident Engineer. When possible, the Resident Engineer will provide 8 hours advance notice if consultant services are not required.

Unless otherwise directed by SANBAG, the normal work week will consist of 40 hours. From time to time, overtime may be required. However, overtime will be worked only when directed in writing by SANBAG.

Once the notice to proceed has been issued, CONSULTANT will immediately begin all material testing. Once services begin, the CONSULTANT will proceed diligently until all required services have been satisfactorily completed.

Material testing will not be performed when conditions (such as weather, traffic, and other factors) prevent safe, efficient operations.

Most construction survey work will be required on an as needed basis as outlined in the "Survey Request".

Once the "Notice to Proceed" is issued, CONSULTANT will immediately begin all construction surveying. Once services begin, CONSULTANT will proceed diligently until all required services have been satisfactorily completed.

#### H. LIMITATIONS TO AUTHORITY

CONSULTANT does not have the authority to:

1. Authorize deviations from the contract documents.
2. Approve substitute materials or equipment; except as authorized in writing by SANBAG.
3. Conduct or participate in tests or third party inspections; except as authorized in writing by SANBAG.
4. Assume any of the responsibilities of the Contractors, Contractors' Superintendent, or subcontractors.
5. Exercise control over or be responsible for construction means, methods, techniques, sequences, procedures, or safety precautions.
6. Communicate directly with subcontractors or material suppliers without the prior consent of the Contractor.
7. Verbally authorize or approve change orders or extra work for the Project.
8. Offer or receive incentives, inducements, or other forms of enumeration to or from the Contractor to perform services or work outside the terms of any executed contracts for this Project.

#### I. THIRD PARTY RELATIONSHIPS

This Contract is intended to provide unique services for specific projects that are a portion of the Measure I Valley Major Projects Program within San Bernardino County. In the development of the Project, SANBAG has worked closely with various professional consultants, agencies, and others in the preparation of the construction documents and other Project related materials. SANBAG, however, is solely responsible for and will be the sole point of contact for all contractual matters related to these Projects. CONSULTANT shall take direction **only** from SANBAG and shall regularly inform **only** SANBAG of Project progress, outstanding issues, and all Project related matters.

During the course of the Project, CONSULTANT may find occasion to meet with City or County representatives, the design engineer, Project consultants, or other third parties who have assisted with the Project. These entities may, from time to time, offer suggestions and/or recommendations regarding the Project or elements of the Project. While SANBAG enjoys a close relationship with and has considerable confidence in the capabilities of these other parties, CONSULTANT shall not act on any suggestions, solicited or unsolicited, without obtaining specific direction from SANBAG. All oral and written communication with outside agencies or consultants related to the project shall be directed only to SANBAG. Distribution of Project related communication and information shall be at the sole discretion of SANBAG representatives.

J. CONSTRUCTION SITE SAFETY

In addition to the requirements specified elsewhere in this contract, the following also will apply.

1. CONSULTANT will conform to the safety provisions of the Caltrans Construction Manual.
2. CONSULTANT's field personnel will wear white hard hats with proper suspension, orange vests with reflective tape, sleeved shirt, long pants, and leather boots with ankle support and rubber soled shoes at all times while working in the field.
3. CONSULTANT will provide appropriate safety training for all CONSULTANT's personnel, including work on and near highways.
4. All safety equipment will be provided by CONSULTANT.
5. CONSULTANT will provide appropriate safety training for all CONSULTANT personnel. Training should include information on safety when working on or near highways.
6. All safety equipment shall be provided by CONSULTANT.

K. BASIS FOR SURVEY AND MONUMENT STAKING

SANBAG will designate the existing horizontal and vertical control monuments that are the basis of CONSULTANT performed surveys. SANBAG will provide the California Coordinate System values and/or elevation values for these monuments. CONSULTANT shall adjust CONSULTANT performed surveys to be the designated control monuments and the values.

Monuments established by CONSULTANT shall be marked by CONSULTANT with Caltrans furnished disks, plugs, tags. In addition, CONSULTANT shall identify CONSULTANT established monuments by tagging or stamping the monuments with the license or registration number of CONSULTANT'S surveyor who is in "responsible charge" of the work.

L. PERSONNEL QUALIFICATIONS AND RESPONSIBILITIES

The quantity and qualifications of field personnel to be assigned will be determined by the scope of the Project and the degree of difficulty of required tasks to be performed. All personnel and personnel assignments shall be subject to approval by SANBAG. While some areas of responsibility may overlap, as a guideline, CONSULTANT personnel assigned to the project shall have the following minimum qualifications:

1. Project Manager

Minimum qualifications shall be as follows:

- a. Six (6) years project management experience on similar ~~highway and bridge~~ construction projects.
- b. Accessible to SANBAG at all times during normal working hours.
- c. A thorough understanding of Caltrans construction practices and procedures.

The Project Manager will assume the following functional responsibilities:

- a. Review, monitor, train, and provide general direction for CONSULTANT inspection personnel.
- b. Assign personnel to projects on an as-needed basis.
- c. Administer personal leave.
- d. Prepare monthly reports for delivery to SANBAG.

2. Senior Resident Engineer

Minimum qualifications shall be as follows:

- a. Eight (8) years resident engineer experience on similar construction projects.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Accessible to SANBAG at all times including weekends and holidays.
- e. Thorough understanding of Caltrans field methods, practices, and construction office procedures.

The Senior Resident Engineer will assume the following functional responsibilities:

- a. Monitor and provide daily direction to CONSULTANT Resident Engineers and inspection personnel.
- b. Assign field personnel to specific project tasks.
- c. Monitor and track Contractor progress.
- d. Prepare daily, weekly and monthly reports as required.
- e. Coordinate efforts of the Construction Staking and Material Testing consultants under contract with SANBAG.
- f. Coordinate utility relocations with appropriate agencies and the utility inspector.
- g. Act as prime field contact between various project Contractors and SANBAG's Construction Manager.

3. Resident Engineer

Minimum qualifications shall be as follows:

- a. Four (4) years resident engineer experience on similar construction projects.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Accessible to SANBAG at all times including weekends and holidays.
- e. Thorough understanding of Caltrans field methods, practices, and construction office procedures.

The Resident Engineer shall act under the direction of the Senior Resident Engineer and will assume the following functional responsibilities:

- a. Monitor and provide daily direction to CONSULTANT inspection personnel.
- b. Assign field personnel to specific project tasks.
- c. Monitor and track Contractor progress.
- d. Prepare daily, weekly and monthly reports as required.
- e. Coordinate efforts of the Construction Staking and Material Testing consultants under contract with SANBAG.
- f. Coordinate utility relocations with appropriate agencies and the Caltrans utility inspector.

- g. Act as prime field contact between SANBAG's Construction Manager and the various project Contractors.

3. Lead Field Inspector

Minimum qualifications shall be as follows:

- a. Six years (6) construction inspection experience in public works or similar projects or a four-year degree in the field of civil engineering, transportation and four years of similar construction experience.
- b. Knowledge of Caltrans construction practices, physical characteristics and properties of highway construction materials, and approved methods and equipment used in making physical tests of construction materials.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Ability to direct the efforts of subordinate inspectors.
- e. Understanding of Caltrans field and construction office procedures.
- f. Ability to use an automatic level and transit for the purpose of verifying line and grade.

The Lead Field Inspector will assume the following functional responsibilities:

- a. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of construction.
- b. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- c. Coordinate field testing of materials to monitor compliance with Project specifications and Caltrans Quality Assurance Program.
- d. Maintain accurate and timely project records. Perform quantity calculations for progress pay estimates.
- e. Perform analytical calculations such as basic earthwork, grading, profiles, and special staking procedures.
- f. Provide input for the redesign of facilities to fit existing field conditions.
- g. Monitor and track Contractor progress. Prepare daily, weekly, and monthly reports as required.

4. Field Inspector

Minimum qualifications shall be as follows:

- a. Two years construction inspection experience in public works or similar projects or a four-year degree in the field of civil transportation engineering.
- b. Knowledge of construction practices, physical characteristics and properties of construction materials, and approved methods and equipment used in making physical tests of construction materials.
- c. Ability to work independently. Ability to make minor decisions concerning construction work in progress and to solve field and office problems.
- d. Understanding of Caltrans construction methods and practices.
- e. Ability to use an automatic level and transit for the purpose of verifying line and grade.

The Field Inspector will assume the following functional responsibilities:

- a. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of project construction.
- b. Assist in preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- c. Coordinate field testing of materials to monitor compliance with Project specifications and Caltrans Quality Assurance Program.
- d. Perform quantity calculations for progress pay estimates and maintain Project records.
- e. Perform analytical calculations such as basic earthwork, grading, profiles, and special staking procedures.
- f. Provide input for the redesign of facilities to fit existing field conditions.
- g. Perform labor compliance interviews of the Contractors' personnel.

5. Structural Representative or Lead Structural Inspector

Minimum qualifications shall be as follows:

- a. Six (6) years of bridge or structural construction inspection as related to Caltrans or major public works projects and a four-year degree in civil engineering.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Knowledge of stress analysis, structural mechanics, and strength of materials.



- d. Knowledge of Caltrans construction practices and the physical characteristics and properties of various bridge construction materials including concrete.
- e. Experience in the following areas: foundations, pile driving, concrete prestressing, bridge deck construction, falsework, and shoring. Additional construction experience in the following areas is also needed: bridge retrofit, deep excavations, hard driving conditions, and deep foundations.
- f. Ability to work independently. Ability to perform duties in the construction field office and effectively make decisions concerning construction work in progress and solving field problems.
- g. Ability to direct the efforts of subordinate inspectors.
- h. Ability to use an automatic level and transit for the purpose of verifying line and grade.
- i. Thorough understanding of Caltrans field methods, practices, and construction office procedures.

The Structural Representative shall assume the following functional responsibilities:

- a. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of structural construction such as bridges, foundations, walls, falsework, shoring, and drainage structures.
- b. Make grade, alignment, quantity, falsework, and shoring calculations.
- c. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- d. Coordinate the sampling and testing of construction materials to monitor compliance with contract specifications.
- e. Monitor and track Contractor progress. Prepare daily, weekly, and monthly reports as required.
- f. Coordinate with Resident Engineer, as well as the Construction Staking and Material Testing consultants under contract with SANBAG.
- g. Direct subordinate inspectors.

#### 6. Structural Inspector

Minimum qualifications shall be as follows:

- a. A minimum of two (2) years of bridge design or structural construction inspection as related to Caltrans or major public works projects or a four-year degree in civil or

structural engineering.

- b. Knowledge of stress analysis, structural mechanics, and strength of materials.
- c. Knowledge of construction practices and the physical characteristics and properties of various highway bridge construction materials including concrete.
- d. Experience in one or more of the following areas: pile driving, concrete prestressing, bridge deck construction, falsework, and shoring.
- e. Ability to work independently and make minor decisions concerning construction work in progress and to solve field and office problems.
- f. Ability to use an automatic level and transit for the purpose of verifying line and grade.

The Structural Inspector will assume the following functional responsibilities:

- a. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of structural construction such as bridges, foundation, walls, falsework, shoring, and drainage structures.
- b. Make grade, alignment, quantity, falsework, and shoring calculations.
- c. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- d. Sampling and testing of construction materials to monitor compliance with contract specifications and Caltrans Quality Assurance Program.

7. Office Engineer

Minimum Qualifications shall be as follows:

- a. Two years (2) office engineering on similar Caltrans highway and/or bridge construction projects.
- b. Knowledge of Caltrans Office of Highway Construction forms used to administer construction projects.
- c. Knowledge of Caltrans system of document organization.
- d. Knowledge of construction records and accounting procedures.
- e. Knowledge of documentation, procedures, and reporting for federally funded projects.
- f. Knowledge of laws and regulations governing the payment of prevailing wages.

The Office Engineer will assume the following functional responsibilities:

- a. Process monthly progress pay estimates, monthly status reports, extra work reports, and weekly statements of working days.
- b. Prepare and process contract change orders.
- c. Monitor construction budget and schedule.
- d. Prepare, maintain, and/or file project documents including labor and equipment records, correspondence, memoranda, meeting minutes, claims, personnel records, labor compliance reports, and daily, weekly, and monthly reports.
- e. Perform routine calculations and checking of quantities.
- f. Coordinate all office activities and functions with SANBAG representatives.

CONSULTANT's personnel will be capable of performing the types of material testing services described above in "Description of Required Services" with minimal instructions.

8. Materials Testing Project Manager

- a. Four years project management experience on a similar highway/bridge construction project.
- b. Licensed civil engineer in the State of California.
- c. Ability to use typical computer programs including word processing and spreadsheets.
- d. Accessible to SANBAG at all times during normal working hours.

Under the direction of SANBAG, the project manager will assume the following functional responsibilities:

- a. Review, monitor, train, and provide general direction for CONSULTANT's laboratory and field personnel.
- b. Assign personnel to projects on an as-needed basis in coordination with SANBAG's Resident Engineer.
- c. Administer personal leave, subject to approval of SANBAG's Resident Engineer.
- d. Prepare monthly reports for delivery to the SANBAG project manager.
- e. Provide direction, administration, and responsibility for Materials Certification per Caltrans Construction Manual, Section 8-01.

Material testing personnel will be certified by a California Registered Civil Engineer as being experienced and competent in the test procedures required for the work involved (and possess a current certificate of proficiency (Form MR-0111) in accordance with Quality Assurance Program Manual (Section 3-5). Independent certification of Caltrans test procedures may be performed at the discretion of the SANBAG Construction Manager.

9. Materials Technicians

CONSULTANT personnel provided under this contract will have a variety of skills and experience appropriate for the level of tasks to be assigned. Field personnel will have a minimum of two years experience in conducting material sampling and testing of the type required for the projects involved and will possess the following additional capabilities:

- a. Have the ability to establish specific locations for appropriate tests when construction contract administration personnel are not available.
- b. Be familiar with construction practices and be fully aware of construction activities at the project site.
- c. Have knowledge of and comply with safety and health regulations and requirements applicable to the project.

Specific qualifications for technicians are as follows:

#### CONSTRUCTION TECHNICIAN I

Performs a variety of semi-skilled activities.

*Examples of duties assigned to this classification are:*

- Conducting quality control tests such as soil densities, sieve analysis tests, operation scales and inspecting spread operations.
- Sampling and transporting produced construction materials from point of application or production to testing laboratory.

#### *Knowledge and Skills Required*

- Knowledge of tools, equipment and vehicles utilized in construction.
- Knowledge of standard equipment and materials used for the sampling and testing of construction material.
- Knowledge of basic mathematics used in the computation of a variety of construction items.
- Knowledge of record keeping, preparing of documents and reports.

#### TECHNICIAN II

Performs a variety of skilled activities

*Examples of duties assigned to this classification are:*

- Inspecting minor construction items, sampling and inspection of steel reinforcement, sampling and inspection of concrete placing operation.
- Collect and analyze soil samples of construction materials to determine compaction and moisture content.
- Inspection and sampling of all phases of asphaltic concrete and PCC paving operation, including plant inspection.

- Confers with construction engineers and contractors regarding construction in progress and is conformance to specifications and construction plans.
- Answers questions and resolves problems.
- Inspects construction in progress to ensure conformance with specification, agreements, and established requirements.
- Keeps daily diary of work progress.
- Prepares reports on all field inspections and submits project quantities on a daily basis.
- Keeps accurate documentation for force accounts and possible claims.

*Knowledge and Skill Required:*

- All knowledge and skills required of lower classification.
- Knowledge of currently accepted methods, procedures and techniques used in highway construction inspection, survey, materials testing, and quality control equipment.
- Skill in interpersonal relations as applied to contact with contractors, representatives of other governmental jurisdictions, and other SANBAG staff.

### TECHNICIAN III

Exercise considerable independent judgment within general Caltrans standards and guidelines.

*Examples of duties assigned to this classification are:*

- Inspect project construction on an ongoing basis to assure compliance with contract and in accordance with State and local standards.
- Perform a variety of structural material tests and inspections.
- Reviews construction plans and verified that these are in accordance with designated specifications and other requirements.
- Participates in the preparation of completed work estimates, to calculate compensation due contractor.
- Examines and verifies numeric data and material specifications on project cost source documents, utilizing geometry and trigonometry calculations.
- Supervises all work activities involved in construction projects, laboratory, and quality control work.
- Recommends approval of proposed project changes.

*Knowledge and Skills Required:*

- All knowledge and skills required of lower classifications.
- Knowledge of the principles and practices of Civil Engineering as applied to the construction of state highways.
- Skill in analyzing and evaluating a wide variety of highly technical engineering data, including construction plans, field survey and quality control documents.
- Skill in interpreting and implementing Caltrans standards, policies, procedures and regulations.
- Skill in interpersonal relations, as applied to contacts with contractors, representatives of other governmental jurisdictions, and other SANBAG/Caltrans staff.

10. Construction Surveying Project Manager

Minimum qualifications for the position of Project Manager shall be as follows:

- Four (4) years project management experience on similar construction projects.
- Licensed Surveyor or pre-January 1, 1982, Registered Professional Engineer in the State of California.
- Accessible to the Resident Engineer and SANBAG at all times during normal working hours as specified in this Scope of Services.

Under the direction of the Resident Engineer and SANBAG the project manager will be responsible for:

- Review, monitor, train, and provide general direction for CONSULTANT survey personnel.
- Assign personnel to projects on an as-needed basis.
- Administer personal leave, subject to approval of the Resident Engineer.
- Prepare monthly reports for delivery to the SANBAG project manager.

11. Field Party Chiefs

Minimum qualifications for the position of Party Chief shall meet at least one of the following licensing requirements:

1. A licensed Land Surveyor in the State of California.
  2. A pre-January 1, 1982, Registered Professional Civil Engineer in the State of California
  3. An experienced surveyor who serves as chief under the direction or supervision of a person who is a licensed Land Surveyor or pre-January 1, 1982, Registered Professional Civil Engineer in the State of California. The direction or supervision shall place the supervisor in "responsible charge" of the work. "Responsible Charge" is defined in Chapter 15 of the Business and Professions Code (the Land Surveyor's Act) and Title 16, Chapter 5, of the California Administrative Code (regulations adopted by the Board of Registration for Professional Engineers and Land Surveyors).
- Two (2) years survey experience on similar construction projects.
  - Thorough knowledge of construction survey practices and the ability to read and interpret plans and specifications.
  - Ability to make effective decisions concerning field problems and work in progress.
  - Familiarity with typical coordinate geometry computer programs.
  - Familiarity with safety requirements for surveying near traffic.

Under the direction of the Resident Engineer, the Party Chiefs will assume the following responsibilities:

- Perform construction staking services for project construction.
- Administer day to day activities for the survey party.

- Perform analytical survey calculations for items such as grading, horizontal and vertical control, right of way, and minor in-field design.
- Maintain continuous communication with the Resident Engineer, field personnel, and construction administration staff.

## 12. Survey Crews

Minimum qualifications for survey crew members shall be as follows:

- One (1) year survey experience on similar construction projects.
- Fundamental knowledge of construction survey practices and the ability to read and interpret plans and specifications.
- Ability to assist Party Chiefs and office personnel in all required surveying work.
- One survey crew member must have the ability to assume temporary leadership of the survey party in the absence of the Party Chief.

Under the direction of the Resident Engineer and the Party Chief, the survey crew members will assume the following responsibilities:

- Perform basic calculations to support construction staking.
- Maintain continuous communication with Party Chiefs and office personnel.

# SANBAG Acronym List

1 of 2

AB	Assembly Bill
ACE	Alameda Corridor East
ACT	Association for Commuter Transportation
ADA	Americans with Disabilities Act
APTA	American Public Transportation Association
AQMP	Air Quality Management Plan
ATMIS	Advanced Transportation Management Information Systems
BAT	Barstow Area Transit
CAC	Call Answering Center
CALACT	California Association for Coordination Transportation
CALCOG	California Association of Councils of Governments
CALSAFE	California Committee for Service Authorities for Freeway Emergencies
CALTRANS	California Department of Transportation
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CHP	California Highway Patrol
CMAQ	Congestion Mitigation and Air Quality
CMP	Congestion Management Program
CNG	Compressed Natural Gas
COG	Council of Governments
CSAC	California State Association of Counties
CTA	California Transit Association
CTAA	Community Transportation Association of America
CTC	California Transportation Commission
CTC	County Transportation Commission
CTP	Comprehensive Transportation Plan
DMO	Data Management Office
DOT	Department of Transportation
E&H	Elderly and Handicapped
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPA	United States Environmental Protection Agency
ETC	Employee Transportation Coordinator
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Administration
FSP	Freeway Service Patrol
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GFOA	Government Finance Officers Association
GIS	Geographic Information Systems
HOV	High-Occupancy Vehicle
ICMA	International City/County Management Association
ICTC	Interstate Clean Transportation Corridor
IEEP	Inland Empire Economic Partnership
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
IIP/ITIP	Interregional Transportation Improvement Program
ITS	Intelligent Transportation Systems
IVDA	Inland Valley Development Agency
JARC	Job Access Reverse Commute
LACMTA	Los Angeles County Metropolitan Transportation Authority
LNG	Liquefied Natural Gas
LTF	Local Transportation Funds
MAGLEV	Magnetic Levitation
MARTA	Mountain Area Regional Transportation Authority
MBTA	Morongo Basin Transit Authority
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MIS	Major Investment Study
MOU	Memorandum of Understanding



## SANBAG Acronym List

2 of 2

MPO	Metropolitan Planning Organization
MSRC	Mobile Source Air Pollution Reduction Review Committee
MTP	Metropolitan Transportation Plan
NAT	Needles Area Transit
OA	Obligation Authority
OCTA	Orange County Transportation Authority
OWP	Overall Work Program
PA&ED	Project Approval and Environmental Document
PASTACC	Public and Specialized Transportation Advisory and Coordinating Council
PDT	Project Development Team
PPM	Planning, Programming and Monitoring Funds
PSR	Project Study Report
PTA	Public Transportation Account
PVEA	Petroleum Violation Escrow Account
RCTC	Riverside County Transportation Commission
RDA	Redevelopment Agency
RFP	Request for Proposal
RIP	Regional Improvement Program
ROD	Record of Decision
RTAC	Regional Transportation Agencies' Coalition
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTPA	Regional Transportation Planning Agencies
SB	Senate Bill
SAFE	Service Authority for Freeway Emergencies
SANBAG	San Bernardino Associated Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCRRA	Southern California Regional Rail Authority
SED	Socioeconomic Data
SHA	State Highway Account
SHOPP	State Highway Operations and Protection Program
SOV	Single-Occupant Vehicle
S RTP	Short Range Transit Plan
STAF	State Transit Assistance Funds
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
TAC	Technical Advisory Committee
TCM	Transportation Control Measure
TCRP	Traffic Congestion Relief Program
TDA	Transportation Development Act
TEA	Transportation Enhancement Activities
TEA-21	Transportation Equity Act for the 21 <sup>st</sup> Century
TIA	Traffic Impact Analysis
TMC	Transportation Management Center
TMEE	Traffic Management and Environmental Enhancement
TOC	Traffic Operations Center
TOPRS	Transit Operator Performance Reporting System
TSM	Transportation Systems Management
USFWS	United States Fish and Wildlife Service
UZAs	Urbanized Areas
VCTC	Ventura County Transportation Commission
VVTA	Victor Valley Transit Authority
WRCOG	Western Riverside Council of Governments

# ***San Bernardino Associated Governments***



## **MISSION STATEMENT**

To enhance the quality of life for all residents, San Bernardino Associated Governments (SANBAG) will:

- Improve cooperative regional planning
- Develop an accessible, efficient, multi-modal transportation system
- Strengthen economic development efforts
- Exert leadership in creative problem solving

To successfully accomplish this mission, SANBAG will foster enhanced relationships among all of its stakeholders while adding to the value of local governments.

Approved June 2, 1993  
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